





LIFTING EQUIPMENTS
SLINGS AND STRAPS
HOOKS | SHACKLES & ATTACHMENTS
RIGGING HARDWARES
CHAINS



QUALITY POLICY

ARC shall do our best to source and provide high quality and trusted Materials, Solution and Services in Engineering, Industrial and Technology field to fulfill Customer Needs and Expectations.

We are continuously

- Improving products and services quality
- · Creating sustainable organization growth
- · Building up knowledge and skill in all levels staff
- Creating team cooperation for continuous improvement and meet highest Customer Satisfaction.





ISO 9001: 2015 REGISTRATION NO. IC-QM-2302139

ISO 9001: 2015

ISO 9001 is a quality management system according to international standards. The key idea of ISO 9001 is to establish a management system for quality assurance which is a system that ensures various processes are controlled and traceable. Through a system that specifies procedures and work methods to ensure that personnel in the organization know their duties, responsibilities and procedures in work. There must be training to provide knowledges and skills in performing the job. Data is recorded Including checking whether work operations are as specified in the system or not. Errors are corrected and there are guidelines to prevent repetative errors.

The ISO 9001:2015 standard adds requirements for understanding the organization and its context.

Understanding stakeholder needs and expectations for action on risks, opportunities and other requirements.

This is one basis that will help the organization continue moving towards sustainable development.

INTERCERT

In addition, OPI's products have been supplied according to below national standard as well.

















CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Quality Management System of

Aires Company Limited



14 Soi Krungthep Kritha 37 Yaek 1, Khwaeng Thap Chang, Khet Saphan Sung, Bangkok, Thailand 10250

Has been successfully assessed as per the requirements of

ISO 9001:2015

For the scope of

Sourcing and Supply Goods and Services for Equipments and Tools (Civil Engineering, Mechanical Engineering, Electrical Engineering, Industrial and Factory products and Safety Devices).

Initial Certification Date : February 25, 2023

Certificate Issue Date : February 12, 2024 Rev.1

Surveillance Validity Date : February 24, 2025
Recertification Date : February 24, 2026

Registration Number: IC-QM-2302139

Auby witi

Issued on behalf of InterCert Head - Certifications







The validity of this certificate can be verified at www.intercert.com or through email at info@intercert.com. This certificate is the property of INTERCERT INC, 2001 Timberloch Place - Suite 500, The Woodlands, Texas 77380, United States and must be required for required for required.





HIGH CORROSION RESIST MATERIALS
STOCK READY

OPI



Discover top-notch rigging gear perfectly crafted for the challenges of many kind of industrial works. Our rigging equipments are your guide to robust, safe, and precise lifting operations. They are robust designed for the tough demands of offshore tasks and the heavy-duty needs of Oil & Gas / Petroleam & Industrial settings. It's all about heavy-duty hoists, smart slings, robust chains and specialized attachments that promise not just strength but also resilience, Apart from above, Stainless Steel serie is available for rust proof, chemical and salt sea water resists.



LIFTING EQUIPMENTS



HOISTS, CHAIN BLOCKS, LEVER BLOCK

Mechanical devices used for lifting or lowering heavy loads. Electric, hydraulic and manual hoists are common types.





CRANES, TROLLEY HOISTS

Large machines equipped with a hoisting mechanism often used for lifting and moving heavy loads over short distances.





RATCHET

- Lashing webbing are produced from 100% high tenacity polyester yarns.
- Metal components are selected to suit lashing & webbing to meet international standard.
- Indicated standard DIN V61360 shows at blue label.
- Length is according to requirement.







SLINGS AND STRAPS

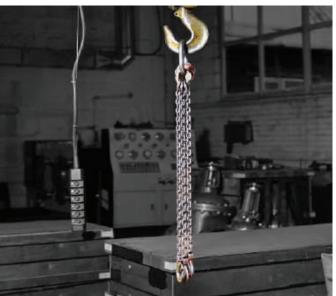


WIRE ROPES

Made of steel cables and use for lifting heavy loads.







CHAINS

Made of Steel and Stainless Steel for Transmitting power in machines, lifting heavy loads, securing valuables, timing engine components, moving materials in manufacturing. Suitable for various industries and applications.





WEB SLINGS

Made of synthetic materials like nylon or polyester, suitable for various lifting applications.







HOOKS | SHACKLES & ATTACHMENTS



HOOKS

Use to attach the load to the lifting equipment.







SHACKLES

U-shaped metal components use for connecting slings and other rigging components.





THIMBLES, SWIVELS AND LINKS

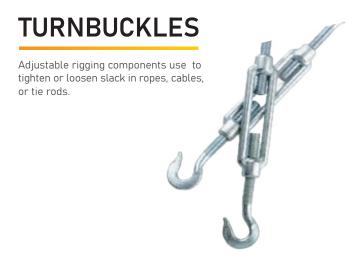
Provide additional flexibility and rotational movement.





RIGGING HARDWARES





EYEBOLTS & EYENUTS

Bolts or nuts with a looped head for attachment points.





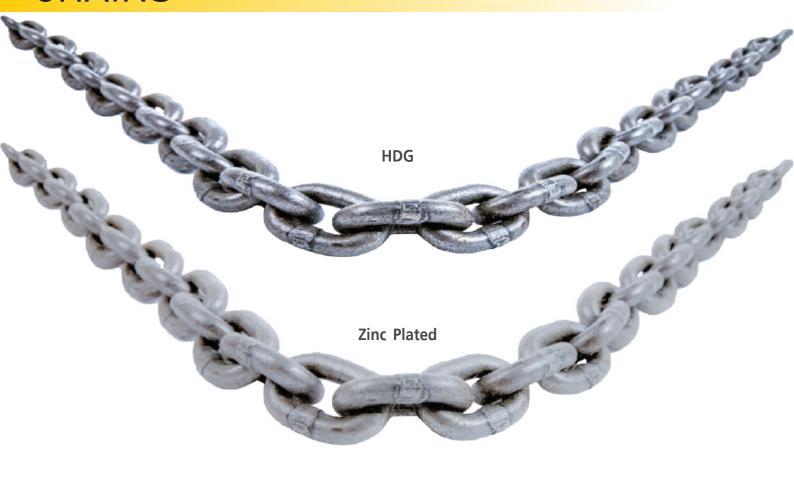
WIRE ROPE CLIPS

Use to form a loop or fasten the loose end of a wire rope.





CHAINS



Available

Grade 30 Chain (Proof Coil Chain) Sizes: 5.5 mm. - 16 mm.

Grade 30 Chain is made from low carbon steel.

This chain is designed to use such applications as guard rails, tie down, load binding, logging, industial uses and general purposes other than overhead lifting. This chain was tested proof loads with Open Crosshead Computer Servo Hydraulic Universal Testsing Machine and was tested hardness with Digital Rockwell Type Hardness Tester.

Grade 30 Chain is manufactured to meet American Standard of testing Material ASTM A413 / A413M Specification.

Available Surfaces :

- Self colored
- Bight Polished
- Zinc Plated
- Powder Coated
- Black Oxide Caoted
- Hot-Dip Galvanized



Single Leg Sling



	w.L.L. in tonne	
Chain Size	Straight	
(mm.)	ı ı	
6	1.12	
7	1.50	
8	2.00	
10	3.15	
13	5.30	
16	8.00	
18	10.00	
20	12.50	
22	15.00	
26	21.20	
32	31.50	

2 Leg Sling

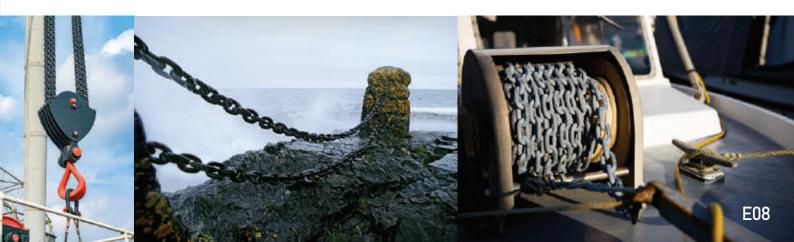


	W.L.L	
Chain Size	0 - 45°	45°- 60°
(mm.)	1.4	1
6	1.50	1.12
7	2.12	1.50
8	2.80	2.00
10	4.25	3.15
13	7.50	5.30
16	11.20	8.00
18	16.00	10.00
20	17.00	12.50
22	21.20	16.00
26	30.00	21.20
32	45.00	31.50

3 - 4 Leg Sling



Chain Size	W.L.I	in tonne
(mm.)	0 - 45°	45°- 60°
	2.1	1.5
6	2.36	1.70
7	3.15	2.24
8	4.25	3.00
10	6.70	4.75
13	11.20	8.00
16	17.00	11.50
18	23.60	17.00
20	26.50	19.00
22	31.50	22.40
26	45.00	34.50
32	57.00	47.50



OPI





STAINLESS STEEL RIGGING



Stainless steel is an essence in the language of contemporary design. Through its structural resistance and aesthetic beauty, stainless steel speaks with unsurpassed confidence to its surrounding. At OPI, we speak the language of stainless steel, combining, casting and machining of different grades of stainless steel. We have provided a secure platform for many sectors of industry for over three decades. Striving in working ever more closely with our market, we spirit ourselves in challenging new production and design limits.

Material composition (AISI standards)

	C%	Cr%	Mo%	Ni%	
Standard material 304 of Casting (CF-8)	≤0.08	18.00-21.00	-	8.00-11.00	
Standard material 304 of Non-Casting (304)	≤0.08	18.00-20.00	-	8.00-11.00	
Standard material 316 of Casting (CF-8M)	≤0.08	18.00-21.00	2.00-3.00	9.00-12.00	
Standard material 316 of Non-Casting (316)	≤0.08	16.00-18.00	2.00-3.00	10.00-14.00	

Note: All casting sections of this catalog have been examined with spectra analysis for their chemical compositions and tested under internal lab settings of temperature 25 °C ±3 °C, humidity 45% ±10%. Non-casting sections are certified by their respective suppliers.

Comparison chart of major international standards

USA AISI	Japan JIS	Great Britain B.S.	Germany DIN	EN / DIN WNr	
CF-8	SCS 13	304 C 15	GX5 CrNi 19-10	1.4308	
304	SUS 304	304 S 15	X5 CrNi 18-10	1.4301	
CF-8M	SCS 14	316 C 16	GX5 CrNiMo 19-11-2	1.4408	
316	SUS 316	316 S 31	X5 CrNiMo 17-12-2	1.4401	

Note: This comparison chart matches the closest relative standards of major international standards. Each international standard may still differ slightly.





"Connecting structures"

ADJUSTABL © FOCK™

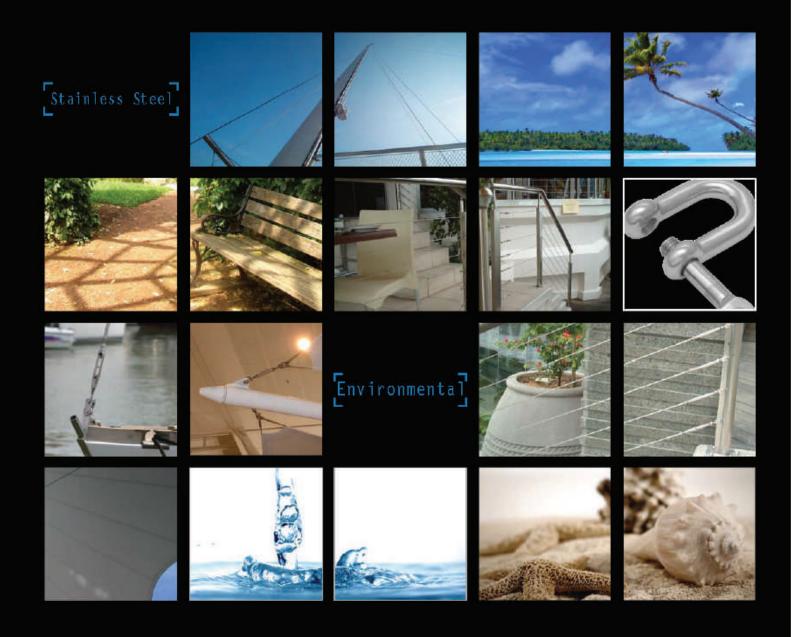


Language of Stainless Steel

Environmental, Aesthetic, Confidence.







Stainless steel is an essence in the language of contemporary design. Through its structural resistance and aesthetic beauty, stainless steel speaks with unsurpassed confidence to its surrounding.

At Strudyna, we speak the language of stainless steel. Combining casting and machining of different grades of stainless steel, we have provided a secure platform for many sectors of industry for over three decades. Striving in working ever more closely with our market, we spirit ourselves in challenging new production and design limits.





■ Stainless steel

Stainless steels are usually classified into five groups: Austenitic, Ferritic, Martensitic, Duplex (combination of Ferritic and Austenitic), and finally Precipitation-hardening.

Austenitic stainless steels contain 16-21% Chromium, 8-14% Nickel and other elements. This stainless group has a face-centered cubic structure and can be hardened by cold working, but not by heat treatment. In the annealed state, all are essentially non magnetic, but slight magnetism does form through cold forming. Austenitic stainless are excellent corrosion resistant, usually good formability and increases in strength as a result of cold forming. Type 316 is the mostly widely accepted grade with a balance performance while type 304 is the cheaper cousin with lower corrosion resistance.

Ferritic stainless steels contain 10,5-30% Chromium, not over 0,1% of Carbon and other elements. This stainless group has a body-centered cubic crystal structure and is magnetic with good ductility and fair resistance to corrosion or oxidation. Ferritic stainless performs poorly in both high and low temperatures compared to Austenitic grades. Typical ferric grades include type 405, 408, 409.

Martensitic stainless steels contain 12-14% Chromium, 0,2-1% Molybdenum and higher carbon content between 0,1-1,2% Carbon. The high Carbon content gives these Martensitic stainless a higher tensile but also makes them more brittle. This stainless group has a distorted body-centered cubic crystal structure and is usually quenched and magnetic. Typical Martensitic grades include type 410, 416, 420, 430 and 440.

Duplex stainless steels contain high Chromium levels between 19-28%, up to 5% Molybdenum but lower Nickel than Austenitic grades. This stainless group has a mixture of Austenitic face-centered and Ferritic body-centered cubic structures. Most duplex alloys are typically designed with equal parts of austenite and ferrite, but some commercial alloy may be 60% austenite to 40% ferrite. Duplex grade stainless typically posses higher strength over Austenitic grade, and has an improved characteristic in localized pitting/cracking or crevice corrosion.

Precipitated hardening stainless steel contains 17% Chromium and 4% Nickel. This grade of stainless steel uses elements such as aluminum, copper or titanium to precipitate harden their structure. These may result in either Austenitic or Martensitic annealed conditions. Austenitic conditions can be solution-treated to become Martensitic with sub zero temperature. Also commonly referred to as PH17-4 and type 630, this grade of stainless has a comparable corrosion resistance to Austenitic grades, but can posses even higher strength than Martensitic grade when solution treated.

■ ■ Material composition (AISI standards)

Description	Chemical Composition				
Description	C %	Cr%	Mo%	Ni%	
Standard material 304 of Casting (CF-8)	≤0.08	18.00-21.00	-	8.00-11.00	
Standard material 304 of Non-Casting (304)	≤0.08	18.00-20.00		8.00-11.00	
Standard material 316 of Casting (CF-8M)	≤0.08	18.00-21.00	2.00-3.00	9.00-12.00	
Standard material 316 of Non-Casting (316)	≤0.08	16.00-18.00	2.00-3.00	10.00-14.00	

Note: All casting sections of this catalog have been examined with spectra analysis for their chemical compositions and tested under internal lab settings of temperature 25 C ± 3 C, humidity 45% ± 10%. Non-casting sections are certified by their respective suppliers.







60-63 % Molybdenum



99.8 % Nickel

Comparison chart of major international standards

USA AISI	Japan JIS	Great Britain B.S.	Germany DIN	EN / DIN WNr
CF-8	SCS 13	304 C 15	GX5 CrNi 19-10	1.4308
304	SUS 304	304 \$ 15		1.4301
CF-8M	SCS 14	316 C 16	GX5 CrNiMo 19-11-2	1.4408
	SUS 316			1.4401





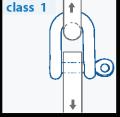
■ Load testing

Load Characteristics depend greatly on each production method, minimum designed cross section area, material grade, and testing setup. In this section we will cover the fundamentals of load testing setup.

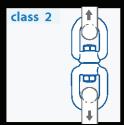
Safety working load is different in each geographical area. However, it is strongly recommended to designing your working load not over one quarter (1/4) of the breaking load listed in this catalog as a common and proper safety ratio.

Proof loading is a tensile loading procedure prior to the actual use of the product. Since stainless modulus of elasticity is relatively high to that of galvanized steel, (hence giving its unique elongation and warning sign) it is recommended to proof load at 1.8 times of recommended safety working load.

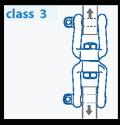
Load Class types indicate how each breaking load testing profile is setup and carried within this catalog. The class type are indicated with a ⁽¹⁾ sign next to the B.L ⁽¹⁾ sign on the Item menu bar (see page XVII). Principal testing profile setup stipulates the following conditions: 1) All items are checked prior to testing against distorted, worn or damaged parts including threads. 2) All items must be fully locked and tighten before testing. 3) Testing is done in room temperature settings. 4) Testing profile is setup in a vertical and undistorted alignment against applied loads. 5) 90% of loading area is covered by the loading tool. 6) Loads are applied in a consistent rate of 2MPa/sec. 7) No shock loading is applied.



Circular load end vs. horizontal flat load end.



Double circular load



Double horizontal flat load ends.



Circular load end vs. rolled swaged cable load end



Horizontal flat load end vs. rolled swaged cable load end.



Double rolled swaged cable load ends.



Double threaded internal threaded load ends



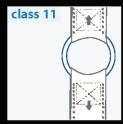
Circular load end vs. external threaded load end.



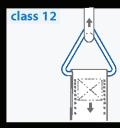
Horizontal flat load end vs. external threaded load end.



Hand swaged load end vs. external threaded load end.



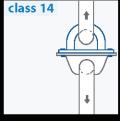
Double Nylon strap load ends.



Circular load end vs. nylon strap load end.



Nylon strap load end vs. external threaded load end.



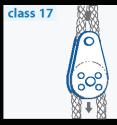
Circular load end vs. flat screwed load end.



Circular load end vs. internal threaded load end.



Nylon strap load end vs. internal threaded load end



Double Nylon rope load ends.



Flat screwed load end vs. nylon rope load end



Circular load end vs. nylon rope load end.



Double internal threaded load ends.





Stainless steel fabrication

Sinox basic's stainless steel production strength focuses on five principal processes of stainless steel: Casting, Forging, Press forming, Welding and Surface treatments.



Casting utilizes the free shape forming of wax injection followed by five layers of ceramic shell made of silicon mallet sand. Each different grade of ceramic layer is thoroughly covered and dried before the next layer is carefully added. When all layers are formed securely, the wax inside the ceramic is removed using steam, heat and pressure. The ceramic shells are then heated up to 900 degree Celsius before molten stainless steel is poured for product to take shape. Advantage of lost wax casting over their forged or press formed counterparts is that the items can be formed to any desired shape. However, due to the nature of the lost wax casting process, lost wax products provide less strength compared to their forged or machined counterparts.



Forging utilizes the principal of heating stainless steel to a soft state of 1020 Celsius before compression force is applied for a forming process. Advantages of forging components are its strength. The molecules are highly compacted to form very high-strength components. The disadvantages of forging components are the limited forms and shapes as well as high molding costs.



Press forming is the process by which SS sheets are compressed (cut) or formed (bent) by means of a press machine. This form of manufacturing can be very economical as form sheets can be bent into any desired shape. However, the disadvantages are the limited thickness as well as high molding cost. Avariety of after-forming processes, including welding and assembly can be added to complete an end product.



**Welding in stainless steel is more critical than normal steel. In order to protect contaminating the exposed surface of heated stainless steel, a protective layer of pure Argon gas is applied. Further fillers may be added to extend the strength of the desired products. The two most common welding processes are TIG and MIG welding. MIG uses a higher temperature and thus results in a stronger and more expensive weld.



Surface finish is one of the most critical areas of production; it will determine how end users perceive the value of the product as well as its corrosion resistance property. The following is a selection of major surface finishes used in this catalog:

Mirror finish involves several layers of fine grinding and waxing to arrive at a mirror exterior. Due to the fine finish, it is the least susceptible to tea stain forming. However, due to the detailing required, it is also the most expensive surface finishing of all.



Machine finish is turned (cut) on a Lathe. This results in a very uniform, lined finish and thus has a very mechanical look to it. Most architectural projects choose it for aesthetic effects.

Matte finish is the cheap cousin of machined finish. It uses a satin grade of 800 rollers to polish; it provides a non-reflective surface similar to Machine finish, but is much cheaper to do.

Electro polished finish uses electricity in a tank of chemicals. Similar to a wet battery setup, the outer layer of molecules of the stainless steel product is pealed away exposing the Chromium molecules resulting in a shining and corrosion-resistance finish.



Passivation is the process of making a material "passive" in relation to other contaminants. In stainless steel, this is achieved by rinsing with diluted solution of nitric acid and peroxide alternating with deionized water. The nitric acid and peroxide oxidizes dissolve any impurities on the exposed surface of the stainless steel, and deionized water rinses away acid and oxidized impurities. This process adds an extra layer of protection to stainless steels surfaces.





■ Mechanical and physical properties of AISI316 and AISI304

Mech	anical pro	perties amb	ient tempe	rature (Lo	ngitudinal	samples)	
	Hardness HB 30	0,2% Yield Stress	1% Yield Stress	Tensile Strength, min	Elongation after fracture	Impact value (ISO-V)	
AISI	[HRB]	MPa	MPa	MPa	min%	J	
CF-8	80-88	175		485	35	60 ¹⁾	
304,304H	215	205	225	515	40	100/60	
CF-8M	80-88	185		485	30	60¹)	
316	215	205	235	515	40	100/60	

Note: Refer to page IV for more detail of Load testing.

Mechanical properties above ambient temperature										
Mean thermal expansion coefficient between 20°C and										
			(10 ⁶	K ⁻¹)						
AISI	100 °C	200 °C	300 °C	400 °C	500 °C	600°C	700 °C			
CF-8	16.8		17.9		18.6					
304, 304H	16.0	16.5	17.0	17.5	18.0	18.5	18.5			
CF-8M	15.8		17.0		17.7					
316	16.0	16.5	17.0	17.5	18.0	19.0	19.5			

Note: Maximum safety working temperature of all stainless steel product is 300 °C.

	Physical properties								
		Specific	Heat	Electric	Modulus of				
	Density	heat	conduction	resistance	elasticity	Magnetizable			
	(20 °C)	(20 °C)	(20 °C)	(20 °C)	(20 °C)	Magnetizable			
	kg	kg	W	Mm ²					
AISI	dm	g.K	K.m	m	kN/mm²				
CF-8	7.88	0.53	15			Yes ¹⁾			
304, 304H	7.90	0.50	15	0.73	200	No			
CF-8M	7.90	0.53	15			Yes ¹⁾			
316	8.00	0.50	15	0.75	200	No			

Remark:

Force and tensile strength conversions

1 kg		9.81N	1 N	0.1019kg
1MPa	=	1 N/mm ²	1 Pa	$1N/m^2$

Imperial to Metric conversion of common units

1 LI) =		4.45N		1 Kip	=	4.45kN
1 fc	oot =	=	0.305m		1 inch	=	25.4m
1 ft	2 =		0.0929m ²		1 in. ²	=	645mm ²
1 p:	si =		6890 Pa		1 ksi	=	6.89MPa

¹⁼ Shielded arc welding; MIG-welding; WIG-welding (Argon-arc).

¹⁾Austenitic steel can be slightly magnetism when quenched. Their magnetism may increase with increased cold forming.





Maintenance of stainless steel



Stainless steel is essentially a low carbon steel which contains Chromium at 1% or more by weight. It is this addition of Chromium that gives the steel its unique stainless, corrosion-resisting property, the most important stainless steel feature. The corrosion resistance and other useful properties of the steel such as formability and strength, to name just two, are enhanced by increased Chromium content and the addition of other elements, like Molybdenum, Nickel and/or Nitrogen.

However, the aesthetic and hygienic surface appearance of stainless steel products can not be regarded as completely maintenance-free. In addition, to achieve maximum corrosion resistance, the surface of the stainless steel must be kept clean. Keeping its good looks and its long life depends on how regularly and how well it is cleaned. Surface contamination and the formation of deposits are critical factors in reducing its shiny life. These contaminants may be minute particles of iron or rust from other non-stainless steels used in nearby construction or welding sparks that were never removed.



Industrial, commercial and even indoor naturally occurring atmospheric conditions can all result in corrosive deposits over extended periods of time. These deposits include cleaning chemicals such as chlorine, fuel as oil vapor, dust, or even

time. These deposits include cleaning chemicals such as chlorine, fuel as oil vapor, dust, or even salt from the sea. Other more aggressive conditions including high humidity indoor swimming pools or salt maintained snow roads can increase the speed of corrosion and therefore require more frequent maintenance. Routine, simple and gentle cleaning will reward the owner with

a product which retains its properties and appearance for years to come. The frequency and cost of cleaning materials for stainless steel are lower than for many other materials so this will often out-weigh higher acquisition costs.

Maintenance Program

The common rule for keeping stainless steel in its original, pristine condition is: "clean it when it is dirty". For regular cleaning, just use ordinary soap, or a mild, diluted detergent, or diluted ammonia in warm water; apply with a soft cloth or synthetic sponge. Rinse well, dry with a soft cloth or drip dry. Occasionally the use of a mild household cleaner, a fine synthetic scourer or a brush with nylon bristles may be used. Regular cleaning will often remove heavy soiling and accumulated staining.





Suggestions

- · Routine, simple and gentle cleaning
- Use only the above mentioned cleaning products
- Employ repeated routine cleaning rather than an aggressive single one completely



Suggest not to do:

- · Use coarse abrasive powders
- · Use metallic scourers
- Use "Silver Cleaners"
- Subject stainless steel to "abnormal" use

Caution and warning

All products require regular inspection from trained professionals of each respective country in use.

This process may not be skipped as products are effected by wear, tear, overloading or improper installation.

Proper installation check list.

- Check proper selection of material, product and size to match your use and environment
- Check all your base structure and fittings are not damaged prior to installation
- Check all pins and screws are in full in position after installation
- Check installation 2 weeks after initial installation and regularly afterwards for any loosening or damage







Production tolerance guidelines for this catalog

Standard	ISO 2768	0.5-6	6-30	30-120	120-400	400-1000	1000-4000
General Casting							
product tolerance (mm)	g	±0.3	±0.5	±0.8	±1.2	±2.0	±3.0
General Machining product tolerance (mm)	m	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2

Note: Production follows the above guidelines. However, product goes through constant upgrade, Check with manufacture for the latest product specs and tolerances.

Imperial thread to Metric (mm) conversion by group

Inch thread	(mm)	Inch thread	l (mm)	Inch thread	(mm)
1"	25.400	3/16"	4.763	7/32"	5.556
1/2"	12.700	5/16"	7.938	9/32"	7.144
1/4"	6.350	7/16"	11.113	11/32 _"	8.731
3/4"	19.050	9/16"	14.288	13/32"	10.319
1/8"	3.175	11/16"	17.463	11/2"	38.100
3/8"	9.525	13/16"	20.813	11/4"	31.750
5/8"	15.875	15/16"	23.813	11/8"	28.575
7/8"	22.225	5/32"	3.969	1 ³ /8"	34.925

Imperial thread to Metric (mm) conversion by size

Inch thread	(mm)	Inch thread	(mm)	Inch thread (mm)
1/8"	3.175	3/8"	9.525	13/16" 20.813
5/32"	3.969	13/32"	10.319	7/8" 22.225
3/16"	4.763	7/16"	11.113	15/16" 23.813
7/32"	5.556	1/2"	12.700	1" 25.400
1/4"	6.350	9/16"	14.288	1 ¹ /8" 28.575
9/32"	7.144	5/8"	15.875	1 ¹ / _{4"} 31.750
5/16"	7.938	11/16"	17.463	13/8" 34.925
11/32"	8.731	3/4"	19.050	$1^{1}/2^{n}$ 38.100

Class A and other Certificates

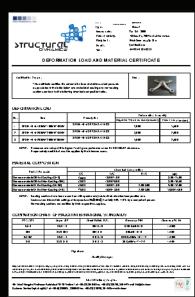
Class A certificate certifies design load as well as material grade and is provided free of charge. Send your request with the following information:

- a) Invoice no.
- b) Invoice date
- c) Product order no.

Certificate for the following criteria can be supplied with a fee.

Class B) actual product breaking load report

- " C) actual chemical composition report
- " D) actual product batch traceability
- " E) actual product x ray report
- " F) actual metallic crystallization
- ' G) third party certification







Reading information in this catalog

This catalog has been designed with an effort to display technical information in a clear and easy to use matter. For further clarification, follow the following description:

Me nu Bar Organizes the technical information relevant to one single item. In this case \$360D-shackle. SF360 has the same appearance but are upset forged and thus considered a separate item. SF360 menu bar is thus created following the \$360 list.

Casting/Forging materials are always identified in technical data section. Materials are based in AISI grades with corresponding DIN grade shown. Some items may be available on both SS304 and SS316 material. Refer to menu bar for their respective order numbers.

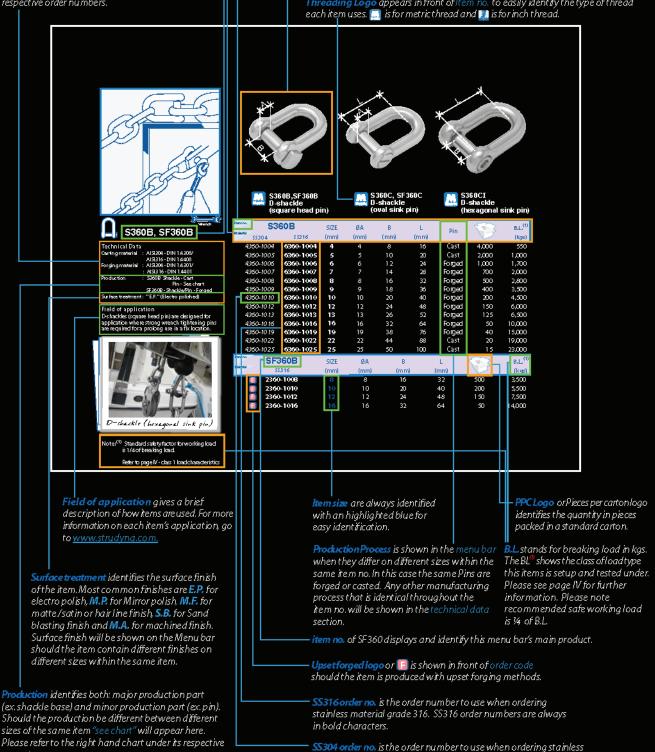
Item no. Shows the relevant items depicted in the item display. One item display may contain several Item codes if these items share same appearance but different manufacturing methods.Ex. S360 and SF360

ltem no, are repeated in three areas of the page, 1) under each item's display, 2) under each item's menu bar and 3) above each technical data section.

<mark>ltem display</mark> shows all relevant items presented in the same catalog page. Items are displayed side by side for easy identification of their differences. Product dimensions are labeled with blue arrows with their respective lettering. Check Menu barfor their respective dimensions. Dimension label "A" only appears on \$360 but will represent all pinsizes for the all products in the same display. (ex. S360CP and S360LK)

Threading Logo appears in front of Item no. to easily identify the type of thread

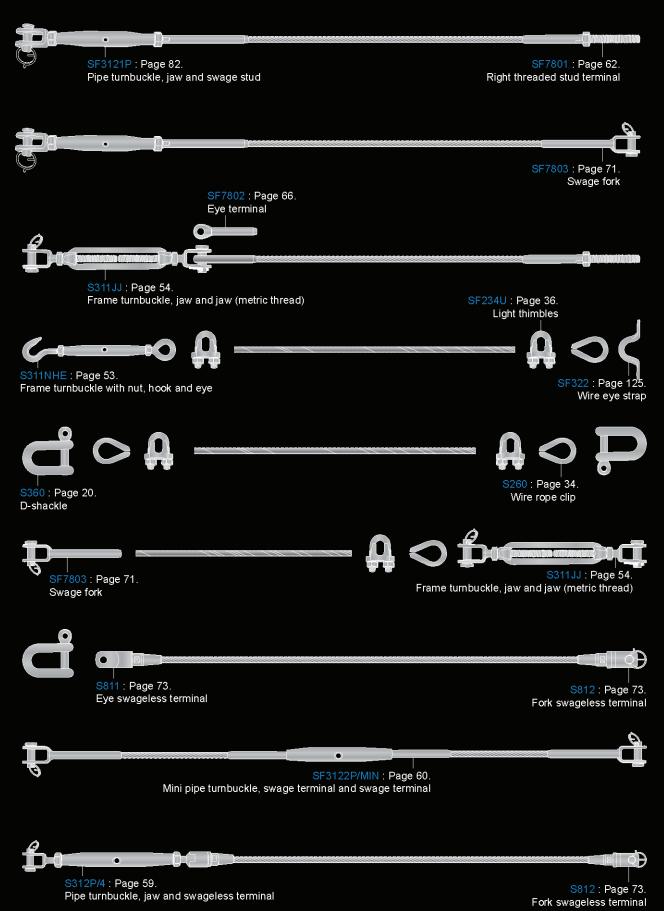
material grade 304. Not all items (ex SF360) will come in both 304 and 316 material. SS304 order numbers are never in Bold characters.





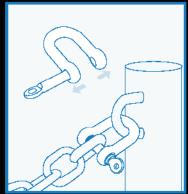


■ ■ Basic Assembly



■PI Shackles & Swivels













S360 D-shackle

S360 CP, SF360 CP D-shackle (collared pin)

S360LK, SF360LKF (forged)
D-shackle (locking pin)

o S360

 Technical Data

 Casting material
 : AISI304 - DIN 1.4308/ AISI316 - DIN 1.4408

 Forging material
 : AISI304 - DIN 1.4301/ AISI316 - DIN 1.4301/ AISI316 - DIN 1.4401

 Production
 : S360 - Shadtle - Cast Pin - Forged
 Pin - Forged
Surface treatment : "E.P." (Electro polished)

D-Shackles are designed for application where quick manual setup/release assembly pins are required.





S360CP, SF360CP

Technical Data

Casting material : AISI304 - DIN 1.4308/

Field of application D-Shackles (collared pin) are designed for application where a more secure tight pin is required.

S360LK, SF360LKF

Technical Data

Casting material : AISI316 - DIN 1.4408
Forging material : AISI316 - DIN 1.4401
Production : S360LK - Shackle - Cast Pin - Forged SF360LKF - Shackle/Pin - Forged Surface treatment : "E.P." (Electro polished)

Field of application

Deshaddles (locking pin) are designed for application where accidental dropping of pin must be avoided during operation. ex. high sea environment or high tower/pole locations.

Note: (1) Standard safety factor for working load

Refer to page IV - class 1 load characteristics.

item no.	S3	60	SIZE	ØA	В	L	C	B.L. ⁽¹⁾
Material	SS304	SS316	(mm)	(m m)	(mm)	(mm)		(kgs)
4	360-0004	6360-0004	4	4	8	16	3,000	550
4	360-0005	6360-0005	5	5	10	20	2,000	1,000
4	360-0006	6360-0006	6	6	12	24	1,000	1,700
4	360-0007	6360-0007	7	7	14	28	600	2,000
4	360-0008	6360-0008	8	8	16	32	500	2,800
4	360-0009	6360-0009	9	9	18	36	250	3,500

item no.	S36	0CP	SIZE	ØA	В	- 1	Pin	4	P	B.L. ⁽¹⁾
Material	SS304	SS316	(m m)	(m m)	(m m)	(m m)	process		C	(kgs)
		6360-0423	3	3	8	12	Forged	4,000	1	400
4	360-0424	6360-0424	4	4	8	16	Forged	3,000	1	550
4	360-4405	6360-4405	5	5	10	20	Forged	2,000	1	1,000
4	360-2006	6360-2006	6	6	12	24	Forged	1,000	2	1,700
4	360-2007	6360-2007	7	7	14	28	Forged	600	2	2,000
4	360-5208	6360-5208	8	8	16	32	Forged	400	n/a	2,800
4	360-5209	6360-5209	9	9	18	36	Forged	300	n/a	3,500
4	360-0410	6360-0410	10	10	20	40	Forged	200	n/a	4,500
4	360-0412	6360-0412	12	12	24	48	Forged	100	n/a	6,000
4	360-0413	6360-0413	13	13	26	52	Forged	125	n/a	6,500
4	360-0414	6360-0414	14	14	28	56	Cast	100	n/a	7,000
4	360-0416	6360-0416	16	16	32	64	Forged	50	n/a	10,000
4	360-0419	6360-0419	19	19	38	76	Forged	40	n/a	15,000
4	360-0422	6360-0422	22	22	44	88	Cast	20	n/a	19,000
4	360-0425	6360-0425	25	25	50	100	Forged	15	n/a	23,000
4	360-0428	6360-0428	28	28	56	112	Cast	10	n/a	26,000
4	360-0432	6360-0432	32	32	64	128	Cast	8	n/a	38,000

item no. Material	SF360CP SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	8	B.L. ⁽¹⁾ (kgs)
F	2360-0404	4	4	8	16	3,000	900
F	2360-0405	5	5	10	20	2,000	1,600
F	2360-0406	6	6	12	24	1,000	2,000
F	2360-0408	8	8	16	32	500	3,500
F	2360-0410	10	10	20	40	200	5,500
F	2360-0412	12	12	24	48	100	7,500
F	2360-0416	16	16	32	64	50	14,000

itemno. S Material	360LK SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	1	P R C	B.L. ⁽¹⁾ (kgs)
63	360-5004	4	4.40	8	16	3,000	1	800
63	360-5005	5	4.40	10	20	1,500	1	1,000
63	360-5006	6	5.25	12	24	1,000	2	1,400
63	360-5008	8	7.10	16	32	500	2	2,800
63	360-5010	10	8.90	20	40	250	n/a	4,000
63	360-5012	12	10.70	24	48	125	n/a	6,200

item no. Material	SF360LKF SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	13	B.L. ⁽¹⁾ (kgs)
E	2360-5005	5	5.26	10	20	3,000	1,500
E	2360-5006	6	6.35	12	24	1,500	2,200
E	2360-5008	8	8.00	16	32	1,000	3,800
F	2360-5010	10	10.00	20	40	500	4,800
E	2360-5012	12	12.52	24	48	250	8,000







S360B, SF360B

Technical Data

Surface treatment: "E.P." (Electro polished)

Field of application

D-shackles (square head pin) are designed for application where strong wrench tightening pins are required for a prolong use in a fix location.



S360C, SF360C

Technical Data

Casting material

: AISI304 - DIN 1,4308/ : AISI316 - DIN 1,4408 : AISI304 - DIN 1,4301/ : AISI316 - DIN 1,4401 Forging material Production : \$360C - Shackle - Cast Pin - See chart \$F360C - Shadkle/Pin - Forged Surface treatment : "E.P." (Electro polished)

Field of application

Shackles (oval sinkpin) are designed for application where a continues smooth and round side is



Technical Data

: AISI316 - DIN 1 4401 : S360CI - Shackle - Cast Pin - Forged
Surface treatment : "E.P." (Electro polished)

Field of application
Shackles (hexagonal sink pin) are designed for application in puplic places where direct malicious manual tampering may occure.

Note: 10 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 1 load characteristics







S360B, SF360B D-shackle (square head pin) S360C, SF360C D-shackle (oval sink pin)



item no.	\$36	60B	SIZE	ØA	В	L		43	B.L. ^[1]
Material	SS304	SS316	(mm)	(mm)	(mm)	(m m)	Pin		(kgs)
4	1360-1004	6360-1004	4	4	8	16	Cast	4,000	550
4	1360-1005	6360-1005	5	5	10	20	Cast	2,000	1,000
4	1360-1006	6360-1006	6	6	12	24	Forged	1,000	1,700
4	1360-1007	6360-1007	7	7	14	28	Forged	700	2,000
4	1360-1008	6360-1008	8	8	16	32	Forged	500	2,800
4	1360-1009	6360-1009	9	9	18	36	Forged	400	3,500
4	1360-1010	6360-1010	10	10	20	40	Forged	200	4,500
4	1360-1012	6360-1012	12	12	24	48	Forged	150	6,000
4	1360-1013	6360-1013	13	13	26	52	Forged	125	6,500
4	1360-1016	6360-1016	16	16	32	64	Forged	50	10,000
4	1360-1019	6360-1019	19	19	38	76	Forged	40	15,000
4	1360-1022	6360-1022	22	22	44	88	Cast	20	19,000
4	1360-1025	6360-1025	25	25	50	100	Cast	15	23,000

item no. Material	SF360B SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	73	B.L. ⁽¹⁾ (kgs)
E	2360-1008	8	8	16	32	500	3,500
F	2360-1010	10	10	20	40	200	5,500
F	2360-1012	12	12	24	48	150	7,500
F	2360-1016	16	16	32	64	50	14,000

	60 C	SIZE	ØA	В	L		453	B.L. ^[1]
SS304	SS316	(mm)	(m m)	(mm)	(m m)	Pin		(kgs)
4360-4004	6360-4004	4	4	8	16	Forged	4,000	550
4360-4005	6360-4005	5	5	10	20	Forged	2,000	1,000
4360-4006	6360-4006	6	6	12	24	Forged	1,000	1,700
4360-4007	6360-4007	7	7	14	28	Forged	700	2,000
4360-4008	6360-4008	8	8	16	32	Forged	500	2,800
4360-4009	6360-4009	9	9	18	36	Forged	400	3,500
4360-4010	6360-4010	10	10	20	40	Forged	250	4,500
4360-4012	6360-4012	12	12	24	48	Forged	150	6,000
4360-4013	6360-4013	13	13	26	52	Cast	125	6,500
4360-4016	6360-4016	16	16	32	64	Forged	60	10,000
4360-4019	6360-4019	19	19	38	76	Cast	45	15,000
4360-4022	6360-4022	22	22	44	88	Cast	20	19,000
4360-4025	6360-4025	25	25	50	100	Cast	15	23,000

item no.	SF360C SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	(3)	B.L. ^{[1)} (kgs)
F	2360-4008	8	8	16	32	500	3,500
F	2360-4010	10	10	20	40	250	5,500
F	2360-4012	12	12	24	48	150	7,500
F	2360-4016	16	16	32	64	60	14,000
item no. Material	S360CI	SIZE	ØA	В	L	43	B.L. ⁽¹⁾
	SS316	(mm)	(m m)	(mm)	(mm)		(kgs)
	6360-5106	6	6	12	24	1,000	1,700
	6360-5108	8	8	16	32	500	2,800
	6360-5110	10	10	20	40	250	4,500

12



12

6360-5112



6,000







S3611, S3611BB

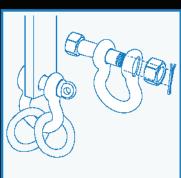
Technical Data

Casting material : AISI316 - DIN 1.4408
Surface treatment : "E.P." (Electro polished)
Production : S3611 - Shaddle /Pin- Cast Production S3611BB - Shackle /Pin- Cast

Field of application

Field of application
Oversize D-shackles and Oversize D-shackles (nut and cotter pin) are designed for application where extra heavy loads are expected. The pins for oversize type are larger than standard D-shackles. Oversize cotter pin D-shackles are expected as well as secure cotter pin to avoid unexpected loosening by vibration or wind.







Technical Data

Perinical Data
Casting material : AISI316 - DIN 1.4408
Production : SZ711 - Shackle /Pin- Cast
SZ711BB - Shadde /Pin- Cast
Surface treatment : "E.R." (Electro polished)

Field of application

Oversize anchor shackles are designed for application where multiple connecting links as well as strong load are expected. Pins for oversize type are larger than normal. Oversize anchor shackles (nut and cotter pin) are

Uversize anchor snackies (nut and cotter pin) are designed for application where multiple connecting links are required as well as a strong heavy load anti vibration pin which can withstand continues vibration from wind or movement.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 1 load characteristics





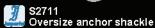


S3611BB
Oversize D-shackle
(nut and cotter pin)

item no. Material	\$3611 \$\$316	SIZE (inch)	ØA (mm)	B (mm)	L (mm)	***	B.L. ⁽¹⁾ (kgs)
	6361-1316	3/16"	6.25	9.52	22	1,000	1,250
	6361-1104	1/4"	7.80	11.90	26	500	2,400
	6361-1516	5/16"	9.40	13.50	30	300	4,100
	6361-1308	3/8"	11.00	15.90	37	200	4,900
	6361-1716	7/16"	12.50	20.60	44	125	7,300
	6361-1102	1/2"	15.70	20.60	50	90	9,900
	6361-1508	5/8"	19.00	27.00	60	50	13,000
	6361-1304	3/4"	22.20	30.20	70	25	18,000
	6361-1708	7/8"	25.40	38.10	85	15	20,000
	6361-1001	1"	28.50	41.30	97	12	23,000

item no.	S3611BB	SIZE	ØA	В	L	43	B.L. ^[1]
Material	SS316	(inch)	(mm)	(m m)	(m m)		(kgs)
	6361-1913	3/16"	6.35	9.52	22	1,000	1,250
	6361-1214	1/4"	7.93	11.90	26	500	2,400
	6361-1251	5/16"	9.52	13.50	30	300	4,100
	6361-1238	3/8"	11.11	15.90	37	200	4,900
	6361-1271	7/16"	12.70	20.60	44	125	7,300
	6361-1212	1/2"	15.87	20.60	50	80	9,900
	6361-1258	5/8"	19.05	27.00	60	45	13,000
	6361-1234	3/4"	22.22	30.20	70	25	18,000
	6361-1278	7/8"	25.40	38.10	85	15	20,000
	6361-1201	1"	28.57	41.30	97	12	23,000





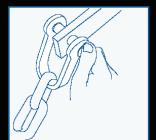


S2711BB Oversize anchor shackle (nut and cotter pin)

					<u> </u>		
item no. Material	\$2711 \$8316	SIZE (inch)	ØA (mm)	B (mm)	L (mm)	8	B.L. ^{[1)} (kgs)
	6271-3614	3/16"	6.25	9.52	25.40	1,000	1,500
	6271-1456	1/4"	7.80	11.90	31.00	500	2,200
	6271-5638	5/16"	9.40	13.50	36.50	300	3,000
	6271-3876	3/8"	11.00	15.90	42.00	200	4,800
	6271-7612	7/16"	12.50	20.60	49.20	100	7,000
	6271-1258	1/2"	15.70	20.60	55.60	80	8,700
	6271-5834	5/8"	19.00	27.00	68.30	40	12,000
	6271-3478	3/4"	22.20	30.20	84.10	25	16,000
	6271-7801	7/8"	25.40	38.10	100.00	20	19,000
	6271-0118	1"	28.50	41.30	112.70	10	28,000
	6271-0118	1"	28.50	41.30	112.70	10	28,000

	0271-0116		26.50	41.30	112.70	10	26,000
item no. Material	S2711BB SS316	SIZE (inch)	ØA (mm)	B (mm)	L (mm)	73	B.L. ⁽¹⁾ (kgs)
	6271-1973	3/16"	6.35	9.52	25.40	1,000	1,500
	6271-8516	1/4"	7.93	11.90	31.00	500	2,200
	6271-8308	5/16"	9.52	13.50	36.50	300	3,000
	6271-8716	3/8"	11.11	15.90	42.00	150	4,800
	6271-8102	7/16"	12.70	20.60	49.20	100	7,000
	6271-8508	1/2"	15.87	20.60	55.60	70	8,700
	6271-8304	5/8"	19.05	27.00	68.30	45	12,000
	6271-8708	3/4"	22.22	30.20	84.10	20	16,000
	6271-8001	7/8"	25.40	38.10	100.00	15	19,000
	6271-8118	1"	28.57	41.30	112.70	10	28,000







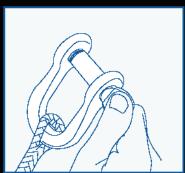
S361

Technical Data

Forging material : AISI304 - DIN 1.4301
Production : S361 - Shackle / Pin-Forged
Surface treatment : "E.P." (Electro polished)

Field of application

Light stamped shackles are designed for very light applications where a simple no load tightening shackle is needed.



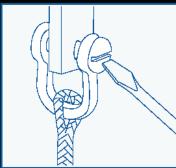


S361R, SF361R

Technical Data

Production : 356 IR - Shaddle - Cast Pin- Forged : SF361R - Shaddle - Sheet Pin- Forged Surface treatment : "E.R" (Electro polished)

Field of application Light D-shackles and Sheet shackles are designed for simple removable light jobs where load isn't a critical factor.





S361RF, SF361RF

Technical Data

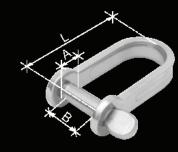
Forging material : AISI304 - DIN 1.4301 Production : S361RF - Shackle - Cast Pin-Forged : SF361RF - Shackle - Sheet

Pin-Forged Surface treatment : "E.P." (Electro polished)

Field of application Light D-shackles and Sheet shackles (flat screw pin) are designed for permanent light jobs where load isn't a cirtical factor.

Note: 1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 1 load characteristics



S361 Light stamped shackle

item no. Material	S361 ss304	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	\$	B.L. ^[1] (kgs)
	4361-0004	4	4	10	19.6	4,000	600
	4361-0005	5	5	12	23.5	2,000	950
	4361-0006	6	6	15	27.5	1,400	1,600
	4361-0008	8	8	23	48.0	350	2,600









item no. Material	S361R 88316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	7	B.L. ⁽¹⁾ (kgs)
	6361-2005	5	5	12	31.2	1,400	950
	6361-2006	6	6	13	37.0	1,000	1,500
	6361-2008	8	8	18	46.5	450	2,600
item no.	SF361R	SIZE	ØA	В	L	43	B.L. ^{[1)}

Material	SF361R 88304	SIZE (mm)	ØA (mm)	B (mm)	L (m m)	S	B.L. ^{[1)} (kgs)
	1361-0004	4	4	10	24.5	2,500	600
	1361-0005	5	5	11	30.7	1,400	1,000
	1361-0006	6	6	14	37.0	1,000	1,600
	1361-0008	8	8	18	49.0	500	2,800







3	SF361RF		
Market Se	Sheet shackle	(flat screw	pin)

item no. Material	S361RF ss304	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	1	B.L. ^[1] (kgs)
	4361-3005	5	5	12	21.0	1,400	950
	4361-3006	6	6	13	25.3	1,000	1,500
	4361-3088	8	8	18	33.0	450	2,600

item no. Material	SF361RF 88304	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	1	B.L. ^{[1)} (kgs)
	1361-0104	4	4	10	16	1,500	600
	1361-0105	5	5	11	21	1,400	1,000
	1361-0106	6	6	14	25	1,000	1,600
	1361-0108	8	8	18	33	450	2,800

□ PI Shackles & Swivels







\$370

Technical Data

Casting material : AISI316- DIN 1 A408
Forging material : AISI316- DIN 1 A401
Production : S370 - Shaddle - Cast
Pin - Forged
Surface treatment : "E.R." (Bectro polished)

Field of application
Androrshaddles are designed for application where
quick assembly of multiple connecting links are anticipated





S370CP, SF370CP

Technical Data

Casting material : A 19316 - DIR 1 A 498
Forging material : A 19316 - DIR 1 A 491
Production : \$370CP - Spackle - Cast
Pin - See chart
SF370CP - Shackle / Pin - Forged
Surface treatment : "E.R." (Bectro polished)

Field of application

Anchor shackles (collared pin) are designed for application where a more securely tight pin is required.









S370CP, SF370CP Anchor shackle (collared pin)



S371LK Anchor shackle (locking pin)

demino. Matema	\$370 55316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	13	B.L. ⁽¹⁾ (kgs)
	6370-0004	4	4	8	20.00	2,000	550
	6370-0005	5	5	10	25.50	1,200	1,000
	6370-0006	6	6	12	30.00	800	1,700
	6370-0008	8	8	16	41.00	400	2,800

temno. Maserai	S370CP SS316	SIZE (mm)	ØA (mm)	B (mm)	(mm)	Pin	*	P II E	B.L. ⁽¹⁾ (ligs)
	6370-3003	3	3	8	16,50	Forged	3,000	- 1	400
	6370-3004	4	4	8	20.00	Forged	2,000	1	550
	6370-3005	5		10	25.50	Forged	1,200	1	1,200
	6370-3006	6	6	12	30.00	Forged	800		1,700
	6370-3008	8	8	16	41.00	Forged	400	2	2,500
	6370-3010	10	10	20	51.00	Forged	200	n/a	4,500
	6370-3012	12	12	24	61.00	Forged	120	n/a	6,000
	6370-3013	13	13	26	66.50	Forged	100	n/a	6,500
	6370-3014	14	14	28	70.00	Cast	8.0	n/a	7,000
	6370-3016	16	16	32	82.00	Forged	50	n/a	10,000
	6370-3019	19	19	38	97.00	Forged	30	n/a	15,000
	6370-3022	22	22	44	110.00	Cast	20	n/a	19,000
	6370-3025	25	25	50	125.00	Forged	1.5	n/a	23,000
	6370-3028	28	28	56	140.00	Cast	1.0	n/a	26,000
	6370-3032	32	32	64	160.00	Cast	6	n/a	38,000

kemno.	SF370CP	SIZE	ØA	8	L	437	B.L. ^{[11})
MONORFEE	55316	(mm)	(mm)	(m m)	(mm)		(kgs)
6	2370-0404	4	4	В	17.00	2,000	900
	2370-0405	5	5	10	21,25	1,200	1,600
E	2370-0406	6	6	12	25.50	800	2,000
F	2370-0408	В	8	16	34.00	400	3,500
F	2370-0410	10	10	20	42.50	200	5,500
	2370-0412	12	12	24	51.00	120	7,500
	2370-0413	13	13	26	55.75	100	9,000
	2370-0416	16	16	32	68.00	50	14,000



Technical Data

Formical Data

Casting material : AIS316 - DIN 1.4408

Forging material : AIS316 - DIN 1.4401

Production : S371LK - Staddle - Cist
Pin - Forged

Surface treatment : "E.N." (Electro polished)

Field of application
Anchor shackles (locking pin) are designed for application where multiple connecting links are required as well as prevention from accidental dropping of pin.

Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV-class 1 load characteristics.

demino.	S371LK 55316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	7	B.L. ⁽¹⁾ (kgs)
	6371-0105	5	4,40	10	20	1,280	1,000
	6371-0106	6	5.26	12	24	800	1,500
	6371-0108	8	7.12	16	32	500	2,900
	6371-0110	10	8.93	20	40	200	4,300
	6371-0112	12	10.75	24	48	120	6,000















S370B, SF370B Anchor shackle (square head pin)

S370C, SF370C Anchor shackle (oval sink pin)



₹ \$370B, SF370B

Technical Data

Cartingmaraial | AI9216 - DIM 1,4408 |
Forging material | AI9316 - DIM 1,4401 |
Production | : 53708 - Shaddle - Cas Production : \$3708 - Shaddle - Cast
Pin - See dhart
SE3708 - Shaddle / Pin - Forged
Surfacetreatment : "E.P." (Electro polished)

Field of application

Anchor shackles (siquare headpin) are designed for application where multiple connecting links are required as well as a permanent wrench tighten pin.



Peter or	\$370B \$8316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	Pin	8	B.L. ⁽¹¹⁾ (kgs)
	6370-1004	4	4	8	20,00	Cast	2,000	550
	6370-1005	5	5	10	25.50	Cast	1,200	1,000
	6370-1006	6	6	12	30.00	Forged	800	1,700
	6370-1008	8	8	16	41,00	Forged	400	2,800
	6370-1010	10	10	20	51.00	Forged	200	4,500
	6370-1012	12	12	24	61.00	Forged	120	6,000
	6370-1013	13	13	26	66,50	Forged	100	6,500
	6370-1016	16	16	32	82.00	Forged	50	10,000
	6370-1019	19	19	38	97.00	Forged	30	15,000
	6370-1022	22	22	44	110.00	Cast	20	19,000
	6370-1025	25	25	50	125.00	Cast	15	23,000

Pater of	SF370B SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	7	B.L. ⁽¹⁾ (kgs)
E	2370-1008	8	8	16	34.00	480	3,500
F	2370-1010	10	10	20	42.50	200	5,500
F	2370-1012	12	12	24	51.00	120	7,500
18	2370-1013	13	13	28	55.75	180	9,000
	2370-1016	16	16	32	68.00	50	14,000



\$370C, \$F370C

Technical Data
Casting material: A19316 - DIN 1.44016
Forging material: A19316 - DIN 1.44016
Production: \$270C - Strackle - Cast
Pin - See chart
SF370C - Strackle/Pin - Forged
Surface treatment: "E.P." (Blectro politihed)

Field of application

Anchor shackles (over sink pin) are design for application where multiple connecting links are requires as well as a non-intrusive sunken pin.

Note:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 1 load characteristics

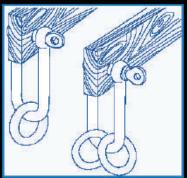


raers	\$370C 55316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	Pin	73	B.L. ⁽¹⁾ (kgs)
	6370-2004	4	4	8	20.00	Forged	2,000	550
	6370-2005	5	S	10	25.50	Forged	1,200	1,000
	6370-2006	6	6	12	30.00	Forged	800	1,700
	6370-2008	8	8	16	41.00	Forged	400	2,800
	6370-2010	10	10	20	51.00	Forged	200	4,500
	6370-2012	12	12	24	61.00	Forged	120	6,000
	6370-2013	13	13	26	66,50	Cast	100	6,500
	6370-2016	16	16	32	82.00	Cast	50	10,000
	6370-2019	19	19	38	97.00	Cast	30	15,000
	6370-2022	22	22	44	110.00	Cast	20	19,000
	6370-2025	25	25	50	125.00	Cast	15	23,000

Parente Parent	SF370C SS316	SIZE	ØA (mm)	B	L (mm)	43	B.L. ⁽¹⁾
-	33010	(mm)	(mm)	(mm)	(mm)		(kgs)
F	2370-2008	8	8	16	34.00	400	3,500
F	2370-2010	10	10	20	42,50	200	5,500
F	2370-2012	12	12	24	51.00	120	7,500
F	2370-2013	13	13	26	55.75	100	9,000
IFI	2370-2016	16	16	32	68.00	50	14,000









Technical Data
Technical Data
Casting material : AISI316 - DIN 1,4408
Forging material : AISI316 - DIN 1,4409
Production : \$362 - Shackle - Casting and Production Pin Forged
And Latent points Surface treatment: "E.P." (Electro polished)

Field of application

Long D-shaddes are designed for application where a quick setup with long reach opening are required.







S362CP Long D-shackle (collared pin)



S362LK Long D-shackle (locking pin)

Remins:	\$362	SIZE	ØA	В	L	£35	B.L. ⁽¹⁾	
Pateral	\$8316	(mm)	(mm)	(mm)	(mm)		(kgs)	
	6362-0004	4	4	8	32	2,000	500	
	6362-0005	5		10	40	1,000	1,000	
	6362-0006	6		12	48	600	1,700	
	6362-0008	8	В	16	64	250	2,500	

CP

Technical Data

AISB16- DIM 1,4408 AISB16 - DIM 1,4401 S362CP - Shackle - Cast Pin - Forged Casting material Forging material Production Surface treatment | "E.R." (Electro polished)

Field of application

Long D-shaddles (collared pin) are designed for application where a more secure tighthering pin is required.

Peteral	\$362CP \$8316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	8	P B C	B.L. ⁽¹⁾ (kgs)
	6362-3004	4	4	8	32	2,000	1	500
	6362-3005	5	5	10	40	1,000	2	1,000
	6362-3006	6		12	48	600	2	1,700
	6362-3008	8		16	64	250		2,500
	6362-3010	10	10	20	80	100		3,500
	6362-3012	12	12	24	96	80	3	5,400



Technical Data
Commo moterial : AISI316 - DIIU 1,4408
Forging material : AISI316 - DIN 1,4401
Production : \$382LK - Shadde - Cast Pin - Forged Surfacetreatment : "E.P." (Electro polished)

Field of application

Long D-shackles (locking pin) are designed for application where a long reach shadde opening as well as anti-dropping pins is required.

Note:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to plage IV - class 1 load characteristics

Poter ini	\$362LK \$3316	SIZE (mm)	ØA (mm)	B (mm)	L (m m)	V	B.L. ⁽¹⁾ (kgs)
	6362-2004	4	4.40	8	32	2,008	500
	6362-2005	5	4.40	10	40	1,000	1,000
	6362-2006	6	5.25	12	48	600	1,700
	6362-2008	8	7.10	16	64	250	2,500
	6362-2010	10	8.90	20	80	120	3,500
	6362-2012	12	10.70	24	96	100	5,400

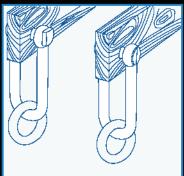














S362B, S362C

Technical Data

Technical Data
Casting material : AISI316 - DIN 1 4408
Forging material : AISI316 - DIN 1 4401
Surface treatment : "E.P." (Electro polished)
Production : S3628 - Shackle - Cast
Pin - See chart
: S362C - Shackle - Cast
Pin - Forged

Field of application Long D-shadkles (square head pin) and Long D-shadkles (oval sink pin) are designed for application where a strong wrench tightening pin, as well as a long reach shackle openings are required.











item no. Material	S362B SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	Pin	13	B.L. ⁽¹⁾ (kgs)
	6362-4004	4	4	8	32	Cast	3,000	500
	6362-4005	5	5	10	40	Cast	1,600	1,000
	6362-4006	6	6	12	48	Forged	800	1,700
	6362-4008	8	8	16	64	Forged	350	2,500
	6362-4010	10	10	20	80	Forged	150	3,500
	6362-4012	12	12	24	96	Forged	100	5,400

item no. Material	\$362C \$8316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	***	B.L. ⁽¹⁾ (kgs)
	6362-1004	4	4	8	32	2,000	500
	6362-1005	5	5	10	40	1,000	1,000
	6362-1006	6	6	12	48	600	1,700
	6362-1008	8	8	16	64	250	2,500
	6362-1010	10	10	20	80	100	3,500
	6362-1012	12	12	24	96	100	5,400









\$360BWN, \$360WO

Technical Data

Surface treatment: "E.P." (Electro polished)

Field of application
Wide D-shackles (nut and cotter pin) and Wide
D-shackles are designed for application where large
opening shackles as well as a permanent wind/vibration resistant pins are required.

Note: (1) Stan dard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 1 load characteristics







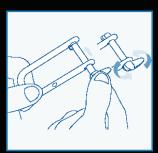


item no. Material	\$360BWN \$\$316	SIZE (mm)	ØA (mm)	B (mm)	L (m m)	8	B.L. ^{[1)} (kgs)
	6360-3009	9	8	36	50.0	150	2,800
	6360-3012	12	12	55	60.0	75	4,000

item no. Material	\$360WO \$8316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	**	E C	B.L. ^{[1)} (kgs)
	6360-9005	5	5	25	22.5	1,000	1	750
	6360-9006	6	6	24	36.0	500	2	1,350
	6360-9008	8	8	28	35.0	300	2	2,500
	6360-9010	10	10	40	60.0	100	n/a	3,350
	6360-9012	12	12	48	72.0	85	n/a	4,000

□ PI Shackles & Swivels







Technical Data

Casting material : AISB16 - DIN 1.4408
Production : S365LK - Shackle/Pin - Cast
Surface treatment : "E.P." (Electro polished) Casting material Production

Field of application Halyard shackles (lodking pin) are designed specifically for marine applications where quick 180° releases pin as well as anti-dropping function is required.



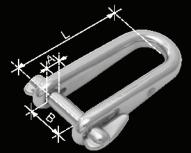


S365DLK

Technical Data

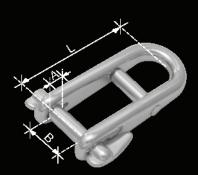
Refer to page IV - class 1 load characteristics





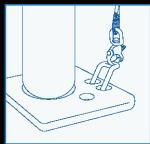
S365LK Halyard shackle (locking pin)

item no. Material	\$365LK \$8316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	*	P B C	B.L. ^{[1)} (kgs)
	6365-0005	5	5	13	40.5	600	2	1,000
	6365-0106	6	6	16	46.0	500	2	1,600
	6365-0008	8	8	22	64.0	250	3	2,250





item no. Material	S365DLK SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	(3)	P B C	B.L. ⁽¹⁾ (kgs)
	6365-1005	5	5	13	40.5	600	2	1,000
	6365-1006	6	6	16	46.0	400	2	1,600
	6365-1008	8	8	22	64.0	175	3	2,250





Technical Data

Casting material : AISI316- DIN 1,4408
Forging material : AISI316- DIN 1,4401
Production : S364LK- Shackle- Cast
Pin - Forged Surface treatment : "E.P." (Electro polished)

Field of application

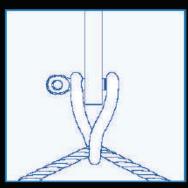
Headboard shackles (cross bar and locking pin) are designed for marine application where a quick assembly shackle with independed eye end is required.



S364LK Headboard shackle (cross bar and locking pin)

item no. Material	\$364LK \$8316	SIZE (mm)	ØA (mm)	B (mm)	C (mm)	B	P B C	B.L. ^{[1)} (kgs)
	6364-0006	6	7.1	12	11.25	400	2	1,900
	6364-0008	8	8.9	16	15.00	180	3	3,700
	6364-0010	10	10.7	20	18.75	120	n/a	5,200
	6364-0012	12	12.4	24	22.50	70	n/a	6,500













S380, S380CP, S380LK

Technical Data

Field of application
Twist shackles and Twist shaddles with locking pin are designed for application where a 90° angle twist setup is required.

Note: (1) Standard safety factor for working load ic 1.44 of breaking load.

Refer to page IV - class 1 load characteristics



temno. scalaror	\$380 \$8316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	*	P B €	B.L. ⁽¹⁾ (kgs)
	6380-0004	4	4	8	24	2,000	1	665
	6380-0005	5	5	10	30	1,000	2	1,100
	6380-0006	6		12	36	600		1,600
	6380-0008	8		16	44	50.5		2,800
familio.	000000		20000		-			

Romino. Meleriar	S380CP 58316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	1	B.L. ⁽¹⁾ (kgs)
	6380-8004	4	4	8	24	2,000	665
	6380-8005	5	5	10	30	1,000	1,100
	6380-8006	6		12	36	600	1,600
	6380-8008	8	8	16	44	505	2,800
	6380-8010	10	10	20	51	200	4,600
	6380-8012	12	12	24	66	125	6,000



berono. Malegari	S380LK SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	13	B.L. ⁽¹⁾ (kgs)
	6380-5006	6	6	12	36	700	1,600
	6380-5008	8	8	16	44	250	2,800

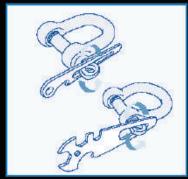


















SF3606, S3607, SFP3606

Technical Data
Casting material : AISI316 - DIN 1,4468
Forging material : AISI304 - DIN 1,4401

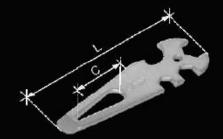
Surface treatment : SS607 - PE.R." (Electro polished)

"M.R." (Mirror polished)

Field of application

Shaddle keys-stamped are designed for application where quick tool is needed for amore secure tightening of shaddle pin. Shaddle keys-cast are designed for application where more secure tightening of shaddle pin is required.



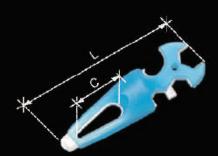








Mannino. Malerna	SF3606 ss304	SIZE (mm)	C (mm)	L (mm)	T (mm)	<u> </u>
	4360-6321	32*100	3.1	100	2.5	700
Marri no. Material	\$3607 \$8316	SIZE (mm)	C (mm)	L (mm)	T (mm)	4
	6360-7455 (M.P.)	4.5*56	30	58	5.0	1,280
	6360-7797 (F.D.)	7#97	15	97	5.0	1.000







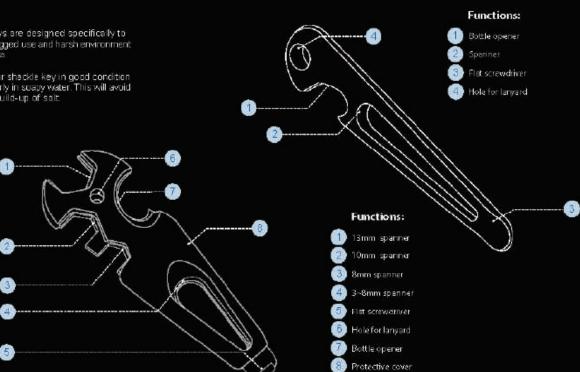
SFP3606 Shackle key with plastic cover (White)

Name no.	SFP3606 98916	SIZE (mm)	C (mm)	L (mm)	T (mm)	7	b Bc
	2360-6320	32*100(Blue)	31	100	2.5	250	3
	2360-6322	37*1000White)	21	200	2.5	250	2



Shackle keys are designed specifically to withstand rugged use and harsh environment found at sea

To keep your shackle key in good condition wash regularly in soapy water. This will avoid undesired build-up of salt.

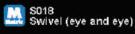


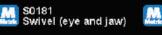














P .	
Swine >	S018

Technical Data

; AISI304 - DIN 1,4308/ AISI316 - DIN 1,4408 : S018 - Sovival - Cast Casting material Production : S018 - Swivel - Cast Surface treatment : "E.R." [Flectropolished)

Field of application

Swivels eye and eye are designed for application where a quick swivel assembly with hook or quick link is expected.

Note: 13 Standard safety factor for working load is 1.4 of breaking load.

Refer to page IV - class 2 load characteristics

ternno	S0)18	SIZE	ØA	В	L	(5)	B.L. ¹⁰
Valuetal	55304	SS316	(m m)	(mm)	(mm)	(mm)	U	(kgs)
40	18-0004	6018-0004	4	4	11.0	50	1,200	450
40	18-0005	6018-0005	5		13.0	59	750	650
40	18-0006	6018-0006	6		14.7	66	500	1,200
40	18-0008	6018-0008	8	8	20.5	94	200	1,900
40	118-0009	6018-0009	9		22.0	102	150	3,000
40	18-0010	6018-0010	10	10	24.0	118	100	3,500
40	18-0013	6018-0013	13	13	31.0	152	50	5,000
40	18-0016	6018-0016	16	16	38.0	188	30	8,500
40	18-0019	6018-0019	19	19	42.0	223	20	10,000
40	18-0022	6018-0022	22	22	47.0	240	1.0	11,500
40	18-0025	6018-0025	25	25	63.0	294	6	13,000



S0181

Technical Data

Casting material : AISI304 - DIN 1.4308/ AISI316 - DIN 1,4408 S0181 - Pin - Forged Swivel - Cast Production Surface treatment: "E.R." [Electropolished)

Field of application

Swivels eye and jaw are designed for application where quick assembly with only one and hook or quick link is expected.

Aurino.	S0181		SIZE	ØA	В	12	E 2	T P	B.L. ⁽²⁾
Material	SS304	SS316	(mm)	(mm)	(mm)	(mm)		É	(kgs)
4	1018-1006	6018-1006	6	6	12	66	500	2	1,200
4	1018-1008	6018-1008	8	8	16	94	200		1,900
4	1018-1010	6018-1010	10	10	20	118	100	n/a	3,500
4	1018-1013	6018-1013	13	13	26	152	50	n/a	5,000
4	1018-1016	6018-1016	16	16	32	188	25	n/a	8,500
4	1018-1019	6018-1019	19	19	38	223	15	n/a	10,000

	8	
	()	001011
-	Allen my	S01811

Technical Data

Carzing material : AISB04 - DIN 1,4908/ AISB16 - DIN 1,4408 Production : S01811 - Pin - See Chart Swivel - Cast Surface treatment : "E.P." (Electro polished)

Field of application

Swivels with internal hexagonal pin are designed for application where prevention of malicious tampering is required.

Note: (3) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 1 load characteristics.

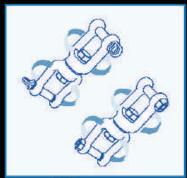
ternno. Matarrai	S0181I SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	Pin	8	E C	B.L. ⁽²⁾ (kgs)
	6018-1106	6	6	12	66	Forged	500	2	1,200
	6018-1108	8	8	16	94	Forged	200		1,900
	6018-1310	10	10	20	118	Cast	100	n/a	3,500
	6018-1113	13	13	26	152	Cast	50	n/a	5,000
	6018-1116	16	16	37	188	Cast	25	rı/a	8,500
	6018-1119	19	19	38	223	Cast	15	n/a	10,000

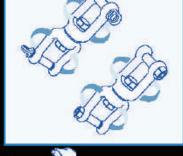




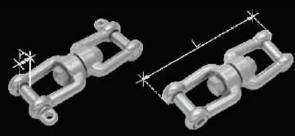
B.L. 11

(kgs)





S0182





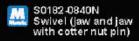


S0182-0840N

4018-2808

SIZE





bemno.	S0182		SIZE	ØA	В	L	+	E	B.L. ⁽¹⁾
Patrici	SS304	SS316	(mm)	(mm)	(mm)	(mm)		ě	(kgs)
- 0	4018-2006	6018-2006	6	6	12	66	400	2	1,200
	4018-2008	6018-2008	8	8	16	94	125	3	1,900
	4018-2010	6018-2010	10	10	20	118	80	n/a	3,500
	4018-2013	6018-2013	13	13	26	152	4.0	n/a	5,000
	4018-2016	6018-2016	16	16	32	188	25	n/a	8,500
	4018-2019	6018-2019	19	19	38	223	15	n/a	10,000



Technical Data

Casting meterial : AISI804 - DIN 1 4208/ AISI816 - DIN 1 4408 Forging material : AISI804 - DIN 1 4401/ AISI816 - DIN 1 4301 Production : S0182 - Swizel - Cast Pin - Forged Forging material Production

Surface treatment: "E.P." @eetro polished

Field of application

Swivels () awand jaw) are designed for application where quick assembly on to closed endichains are expected.

CHAPTE / PROPER		
	ribus hay	S0182I

Technical Data

: AISI316 - DIN 1,4408 Casting material Forging material Production : AISI316 - DIN 1 4401 : S01821 - Swivel - Cast Pin - See Chart Surface treatment: "E.P." (Electro polished)

Field of application

Swivels () aw and Jaw with internal hexagonal pin) are designed for application where malicious tampering are expected.

Penno.	S0182I SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	Pin	13	PBC	B.L. ⁽¹⁾ (kgs)
	6018-2106	6	6	12	66	Forged	400	2	1,200
	6018-2108	8	8	16	94	Forged	200		1,900
	6018-2110	10	10	20	118	Cast	80	Ti/a	3,500
	6018-2113	13	13	26	152	Cast	40	n/a	5,000
	6018-2116	16	16	32	188	Cast	25	n/a	8,500
	6018-2119	19	19	38	223	Cast	15	n/a	10,000







Technical Data Casting meterial Forging material Forging material : AIS304 - DIN 1.4308
Forging material : AIS304 - DIN 1.4301
Production : 90182-0840 N - Swivel - Cast
Pin - Forged
Surface treatment : "E.P." (Electro polished)

Field of application

Swinds (jaw and jaw with cotter nut pin) are designed for application where a lot of wind and vibration is expected.

Note: 10 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dess 3 load characteristics

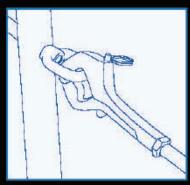
1	Aug .
	Swivel (jaw and jaw)





Shackles & Swivels P







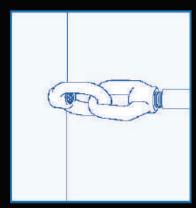
Technical Data

Casting material | AISI316 - CIN 1 4408 Production | S3062/E1 - Swive - Cast Surfacet reatment | "E.R." (Electro polished)

Field of application

Swivel sig ews are designed to be screw onto an external threaded rod for light lifting purpose. Swivel profile allows easy gripping







S3062/E2

Technical Data

Casting meterial : AUS316 - DIN 1,4408
Production : \$306 2/E2 - Swivet - Cast
Surface treatment : "E.R" [Electro polished]

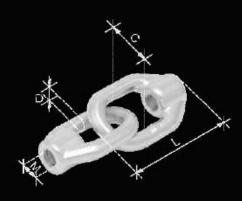
Field of application

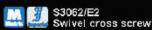
Swivel cross screws are designed to be screw onto an external threaded rod for light lifting purpose. Gross swivel profile allows essy gripping of two loose ends.





famno. Materal	\$3062/E1 \$8316	SIZE (mm/inch)	C (mm)	ØD (mm)	L (mm)	M (thread)	9
	6306-2108	8	15	6.5	37.5	MA8	1,000
	6306-2536	5/16"UNF	15	6.5	37.5	5/16"UNF	1,000





iherono Hateral	\$3062/E2 \$8316	SIZE (mm/inch)	C (mm)	ØD (mm)	L (mm)	M (thread)	0
	6306-2208	8	15	6.5	37.5	PAB	500
	6306-2526	5/16"UNF	15	6.5	37.5	5/16"UNF	500



Wire ropes & Thimbles









Field of application
Wire rope clips (AISI standard) are designed for application where a secure grip is needed. Two wire clip are expected per assembly.









S261 Wire rope clip - light type

	260	SIZE	В	L	M	4
Material SS3 04	SS316	(mm)	(mm)	(mm)	(mm/inch)	
4260-0150	6260-0150	1.5	5.0	16.0	M2	6,000
4260-0002	6260-0002	2.0	7.0	17.5	M3	3,000
4260-0003	6260-0003	3.0	8.0	21.0	M3	2,500
4260-0004	6260-0004	4.0	10.0	23.0	M4	1,200
4260-0005	6260-0005	5.0	12.0	29.0	M5	1,000
4260-0006	6260-0006	6.0	14.0	32.0	M6	600
4260-0008	6260-0008	8.0	17.5	40.0	M8	300
4260-0010	6260-0010	10.0	21.0	50.0	M10	200
4260-0012	6260-0012	12.0	26.0	62.0	M12	100
4260-0014	6260-0014	14.0	28.0	67.0	M12	100
4260-0016	6260-0016	16.0	32.0	78.0	M14	75
4260-0019	6260-0019	19.0	34.0	83.0	M14	50
4260-0022	6260-0022	22.0	40.0	96.0	5/8"	25
4260-0025	6260-0025	25.0	44.0	105.0	5/8"	20



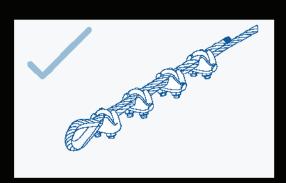
Technical Data

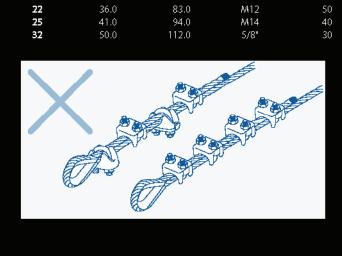
Forging material : AISI316 - DIN 1.4408
Forging material : AISI316 - DIN 1.4401
Production : S261 - Clip - Cast
U-bolt - Forged Surface treatment: "E.P." (Electro polished)

Field of application

Wire rope clips - light type are designed for ropes who's tensioning application isn't as critical as of AISI standard. Two wire clip is expected per assembly.

Material	S261 SS316	SIZE (mm)	B (mm)	L (mm)	M (mm/inch)	
	6261-0002	2	7.0	17.5	M3	3,000
	6261-0003	3	8.0	21.0	M3	2,500
	6261-0004	4	10.0	23.0	M4	2,000
	6261-0005	5	12.0	25.0	M5	1,000
	6261-0006	6	13.8	32.0	M6	600
	6261-0008	8	16.0	35.0	M6	500
	6261-0010	10	20.0	44.0	M8	250
	6261-0013	13	25.0	55.0	M10	150
	6261-0016	16	28.0	65.0	M10	100
	6261-0019	19	34.0	75.0	M12	75
	6261-0022	22	36.0	83.0	M12	50
	6261-0025	25	41.0	94.0	M14	40
	6261-0032	32	50.0	112.0	5/8"	30

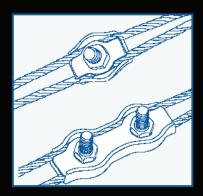






Wire ropes & Thimbles P





💶 💶 📭 SF511, SF512

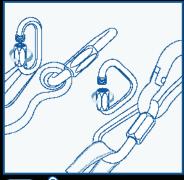
Technical Data

Technical Data
Casting material : AISI316 - DIN 1.4408
Production : SF511 - Clip- Forged
SF512 - Clip- Forged
Surface treatment : "E.P." (Electro polished)

Field of application

Simplex clips are designed for wire rope who needs a simple loop setup. It is not designed for heavy tensioning applications.
Duplex clips are designed for wire rope who require a simple loop setup. Both screws must be securely tightened. Do not use in application where heavey load is expected.





S7350, SF7350, S7360

Technical Data

Production : AISI316 - DIN 1.4401
Production : S7350 - Link - Forged
S7360 - Link - Forged
Surface treatment : "E.P." (Electro polished)

Field of application
Quick links are designed for application where a quick connecting piece is needed between two chain eye or hook with eye end.
Triangle quick links are designed for application where a joint piece is needed between a sythetic rope and a hook or chain.







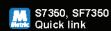
SF512 Duplex clip

item no. Material	SF511 SS316	SIZE "for cable"	B (mm)	E (mm)	L (mm)	M (mm)	
E	6511-0020	2	4.0	8.2	15.0	M4	6,000
Œ	6511-0003	3	7.0	11.0	17.0	M4	4,000
Œ	6511-0004	4	9.2	13.0	21.0	M5	1,000
Œ	6511-0005	5	11.0	15.0	25.0	M5	2,000
F	6511-0006	6	13.0	18.5	30.0	M6	1,000
Œ	6511-0008	8	17.5	25.0	36.5	M8	600

item no. Material	SF512 SS316	SIZE "for cable"	B (mm)	E (mm)	L (mm)	M (mm)	
•	6512-0002	2	5.0	9.0	30.0	M4	2,000
Œ	6512-0003	3	7.0	11.4	34.0	₩	1,500
E	6512-0004	4	9.2	13.5	40.0	M5	700
E	6512-0005	5	11.0	16.0	50.0	M5	500
E	6512-0006	6	13.0	19.0	60.0	M6	400
(F)	6512-0008	8	17.5	25.5	75.0	M8	150







\$7350

	S7360		
Medicic	Triangle	quick	link

Material	SS316	(mm)	(mm)	(m m)	(mm)	(mm)	C B	
	6785-0035	3.5	10.0	3.5	35.0	4.5	2	1,600
	6735-0070	7.0	15.5	7.0	66.0	8.5	2	500
	6735-0009	9.0	18.5	9.0	80.0	11.0	2	250
	6735-0010	10.0	20.0	11.0	89.0	12.0	3	200
	6735-0012	12.0	23.0	12.0	104.5	15.0	3	100
item no.	SF7350	SIZE	В	D			0	1
item no. Material	SF7350 SS316	SIZE (mm)	B (mm)	D (mm)	l (m	m)	O (mm)	1
			_			m)),5	_	2,000
Material	SS316	(m m)	(m m)	(m m)		9.5	(mm)	2,000 1,200
Material F	SS316 2735-0004	(mm) 4	(mm) 11.0	(mm) 4	39 48	9.5	(mm) 5.5	

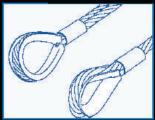
item no. Material	\$7360 ssa16	SIZE (mm)	D (mm)	L (mm)	O (mm)	
	6736-0006	6	6	56	7.5	500
	6736-0010	10	10	87	12.0	150





Wire ropes & Thimbles









SF414
Heavy thimbles



Technical Data

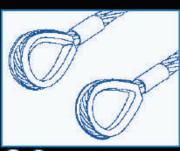
Forging material : AISI316 - CIN 1,4901 Production : SF234V - Thimble - Forged SF414 - Thimble - Forged Surface freatment | "EJR." | Electro polished)

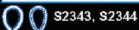
Field of application
Light thimbles are designed for application where secure loop for where rope is needed.
Heavy thimbles are designed for applications where heavy loops and load are expected.



ternica Haleria	SF234U SS316	SIZE (mm)	B (mm)	L (mm)	T (mm)	Dia Ø Cable (mm)	0
	6234-0002	2	10.0	25.0	0.8	2	5,000
	6234-0003	3	12.5	28.5	1.0	3	3,500
	6234-0004	4	13.0	33.0	1.2	4	2,000
	6234-0005	5	15.5	36.5	1.2	5	1,500
	6234-0006	6	17.0	40.0	1.5	6	1,000
	6234-0008	8	22.5	51.0	1.5	8	500
	6234-1010	10	26.0	58.5	2.0	10	300
	6234-1012	12	31.0	68.0	2.0	12	300
	6234-1014	14	34.0	74.0	2:5:	14	130
	6234-1016	16	37.5	83.0	2.5	76	100
	6234-1018	18	40.0	92.0	3.0	18	60
	6234-0020	20	45.0	104.0	3.0	20	50
	6234-0022	22	50.5	115.0	4.0	22	40
	6234-0025	25	54.0	125.0	4.0	25	30
Acces to the	and the second s						

ternino. sessorar	SF414 \$\$316	SIZE (inch)	B (mm)	L (mm)	T (mm)	Dia Ø Cable (inch)	1
	6404-0316	3/16"	18.0	43.0	1.0	3/16"	1,000
	6414-0401	1/4"	23.3	56.0	1.5	1/4*	500
	6414-0615	5/16"	27.3	63.0	2.0	5/16"	300
	6414-0803	3/8"	29.0	73.0	2.5	3/8*	160
	6414-0201	1/2"	38.0	92.0	4.0	1/2*	80
	6414-0805	5/8"	45.0	106.0	4.0	5/8"	50
	6414-0403	3/4"	50.8	125.0	5.0	3/4*	25
	6414-0708	7/8"	57.0	139.8	6.0	7/8*	20
	6414-0001	1"	65.5	157.5	6.0	7.	14





Technical Data

Technical Data
Casting material | AISI804 - DIN 1.4908
Production | \$25343 - Thimble - Cast
\$2344 - Thimble - Cast
Surface treatment | "E.R." | Electro polished)

Field of application

Deened end thimbles are designed for application where extra heavy loads are expected. Dose diend thimbles are designed for application where extra heavy loads are expected. Dose and thimbles he ps to avoids any deformation of thimbles.





\$2343



\$2344

	Opened	end thimbles		Make Closed end thimbles					
terring. Motorial	\$2343 58304	SIZE (mm)	B (mm)	L (mm)	Dia Ø Cable (mm)	0			
	4234-3006	6	16.0	35.5	6	1,000			
	4234-3008	8	22.4	47.3	8	650			
	4234-3010	10	28.0	58.0	10	300			
	4234-3012	12	34.0	67.0	12	200			
	4234-3016	16	44.0	91.0	16	75			
	4234-3020	20	54.0	112.0	20	40			
	4234-3022	22	59.0	120.0	22	30			
	4234-3025	25	68.0	134.0	25	20			
termo. Material	S2344 ss304	SIZE (mm)	g (mm)	L (mm)	Dia Ø Cable (mm)	9			
	1224 1002		1965	22.0	-	F 0.00			

tempo:						100
Makeria i	S2344 SS304	SIZE (mm)	(mm)	L (mm)	Dia Ø Cable (mm)	43
	4234-4002	2	8	21.0	2	5,000
	4234-4003	3	10	26.0	3	2,500
	4234-4004	4	12	32.0	4	1,500
	4234-4006	6	16	43.0		600
	4234-4008	8	24	58.5	8	300
	4234-4010	10	28	72.0	10	150
	4234-4012	12	35	86.0	12	75
	4234-4014	14	39	100.8	14	60
	4234-4016	16	45	110.0	16	40
	4234-4019	19	54	124.0	20	35
	4234-4022	22	60	130.0	22	25
	4234-4025	25	70	1480	25	20



Wire ropes & Thimbles P





S10, S661

Technical Data

| Casting material | Al5i304 - DiN 1.4308/ | Al5i316 - DiN 1.4408 | | Production | S10 - Link - Cast | | 5661 - Link - Cast | | Surface treatment | "E.R" (Electro polished)

Field of application
C-Links are designed for application where a simple elongation of drain are needed. C-Link are not designed for heavy loads.
Connecting links are designed for application where selengation fitting is needed to extend an existing thain. Connecting linkare not to be used as a permanent forture.

Note: 10 Standard safety factor for working load is 1.44 of breaking load.

Refer to page Mi-dass 2 load characteristics.

Instruction of \$661









\$10 (C - link)







Connecting link

	10	SIZE	В	C	Т	473	B.L. ¹⁰
Melejal SS304	SS316	(mm)	(mm)	(mm)	(mm)		(kgs)
4100-0005	6100-0005	5	7,5	20	5.0	3,000	230
4100-0006	6100-0006	6	9.0	24	6.0	1,500	300
4100-0008	6100-0008	8	12,0	32	8.0	700	5.50
4100-0009	6100-0009	9	13.5	36	9.0	500	750
4100-0010	6100-0010	10	15.0	40	10.0	300	850
4100-0011	6100-0011	11	16.5	44	11.0	250	950
4100-0013	6100-0013	13	19.5	52	13.0	150	1,400
4100-0016	6100-0016	16	24.0	64	16.0	100	2,050
4100-0019	6100-0019	19	28.5	76	19.0	50	2,500
4100-0022	6100-0022	22	33.0	88	23.0	30	3,000
4100-0025	6100-0025	25	37.5	100	26.5	20	4,750

memo. Meleral	S661 SS316	SIZE (inch)	B (mm)	C (mm)	T (mm)	8	B.L. ^{D)} (kgs)
	6661-0316	3/16"	8.5	17.00	5.0	3,000	550
	6661-0104	1/4"	10.5	20.80	6.0	1,250	800
	6661-0516	5/16"	12.0	24.00	8.0	600	1,450
	6661-0308	3/8"	15.0	28.25	9.5	400	1,900
	6661-0716	7/16"	16.5	32.50	11.0	250	2,550
	6661-0102	1/2"	18.5	36.75	12.5	200	3,200
	6661-0508	5/8"	24.0	48.00	16.0	100	5,500
	6661-0304	3/4"	28.5	56.50	19.0	50	8,000



□PI Wire ropes & Thimbles







SWR 1x19 Wire rope 1x19





Technical Data
Type of material : AISI316
Construction : 1x19
Type of lay : RHRL (Right hand regular lay)

Field of application

316 Stainless Steel 1x10 soire is used primarily for a yacht standing rigging.



nno. Inst	SWR 1x19 55316	DIA (mm)	Length/Reel (m)	Appw.t (kg/100m)	App w.t (kg/reel)	B.L. ^[1] (kgs)
	CX6119025	2.5	305	3,10	9.46	500
	CX6119030	3.0	305	4.46	13.60	720
	CX6119040	4.0	305	7.93	24.19	1,285
	CX8119050	5.0	305	12.40	37.82	2,000
	CX 61190 60	6.0	305	17.80	54.29	2,876
	CX6119080	8.0	305	31,70	96.69	4,640
	CX6119100	10.0	305	49.70	150.98	7,560
	CX6119120	12.0	305	71,30	217.47	10,890





SWR 7x7 Wire rope 7 x7





Technical Data

Type of material | AISI816 Construction : 7x7 Type of lay : RHRL (Right hand regular lay)

Field of application Stainless Stael 7x2 wire rope configuration provides an extellent balance between flexibility and strength.

Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 6 load characteristics



kemin Habral	SWR 7x7	DIA (mm)	Length/Reel (m)	App.w.t (kg/100m)	App w.t (kg/reel)	B.L. ^[1] (kgs)
	CX6707020	2.0	305	1.57	4.79	235
	CX6707025	2.5	305	8.24	2.70	428
	CX 670 70 30	3.0	305	3.54	10.80	612
	CX 6707040	4.0	305	6.29	19.18	907
	CK 6707050	5.0	305	9.83	29.98	1,418
	CX 67070 60	6.0	305	14.20	43.34	2,040
	G700-7608	8.0	305	25.20	76.86	3,632
	6700-7305	10.0	305	39.30	119.87	5,175
	6700-7235	12.0	305	56.70	172.94	7,445
	6700-7801	1/8"	305	2.80	8.54	612
	6700-7325	5/32"	305	4.30	13.12	987
	6700-7163	3/16"	305	6.20	18.91	1,418
	6700-7401	1/4"	305	10,60	32.33	2,845
	6700-7165	5/16"	305	16.70	50.94	4,185



Wire ropes & Thimbles \Box









Technical Data Type of material Construction Type of lay

: AISI316 : 7x19 : RHRL (Right hand regular lay)

Field of application
Stainless steel zx19 wire rope configuration provides the most flexible solution for applications where many tight cornering of wire rope is expected.

 $\begin{aligned} \textbf{Note}_{s}^{(1)} & \text{ Standard safety factor for working load} \\ & \text{ is } 1.41 \text{ of breaking load} \end{aligned}$

Refer to page IV - class 6 load characteristics







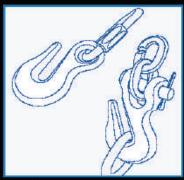


MA 7/	SWR 7x19
11	Wire rope 7x19

SWR 7x19	DIA (mm)	Length/Reel (m)	App w.t (kg/100m)	App w.t (kg/reel)	B.L. ^{H)} (kgs)
CX 671 90 20	2.0	305	1.70	5.19	200
CX 671 90 25	2.5	305	2.70	B.24	378
CX 671 90 30	3.0	305	3.42	10.43	544
CX6719040	4.0	305	6.09	18.58	959
CX 671 90 50	5.0	305	9.52	29.04	1,509
CX671 90 60	6.0	305	13.80	42.09	2,181
CX 671 9080	8.0	305	24.30	74.12	3,874
CX671.9100	10.0	305	3B.10	116.21	5,375
CX 671 9120	12.0	305	54.80	167.14	7,750
6701-9801	1/8"	305	2.90	8.85	544
6701-9325	5/32"	305	4.50	13.73	959
6701-9163	3/16"	305	6.50	19.83	1,309
6701-9401	1/4"	305	11.00	33.55	3,440
6701-9165	5/16"	305	17.30	52.77	5,375

□□□ Hooks & Snaps







Technical Data Casting material Production

Cestinical Data
Cesting material : AISI816 - DIN 1:4468
Production : \$323H - Hook - Cast
\$330 - Hook - Cast
Pin - See chart
Surface treatment: "E.R." (Electro polished)

Field of application

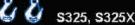
Grap hooks (eye end) are designed for application where heavy loads are expected. The small opening of the devis limits functionally but increases it's

or the devis limits function any but in deases it load strength. Grap hooks (devis end) are designed for heavy application where an open end is required for assembly or to a chain.

Note $\mathbb{C}^{(2)}$ Standard safety factor for working load is 1.44 of breaking load.

Refer to page IV - class 2 load characteristics





Technical Data Casting material Production

Fecting rotatia

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Easting rotatian

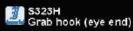
Easting rotat

Fireto of application
Slip hooks (eye end) are clessing after light Loads with
hersability in mind. The open hook system allows easy
loading an dumloading of littled hooks/chair systems.
Slip hooks (eye end with safety latch) with safety latch
are designed for application where a lot of movement
may occur. Safety latch prevents accidental fall out
of inserted hooks/chain systems.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class | Ica dicharacteristics







Grab hook (clevis end)

Memoria.	S323H 88316	SIZE (inch)	ØB (mm)	L (mm)	O (mm)	9	B.L. ⁽¹⁾ (kgs)
	6323-2104	1/4"	13.0	77.6	8.7	2.50	2,900
	6323-2516	5/16"	14.5	90.0	11.1	1 25	3,700
	6323-2308	3/8"	17.0	103.6	12.7	80	5,800
	6323-2102	1/2"	22.5	136.2	16.6	40	7,000
	6323-2508	5/8"	27.0	169.1	19.8	20	13,000

Molerial	\$330 \$\$316	SIZE (inch)	ØA (mm)	B (m m)	L (mm)	O (mm)	7	B.L. ⁽²⁾ (kgs)
	6330-0104	1/4"	9,5	11.1	79.6	8.7	150	2,100
	6330-0516	5/16"	115	12.7	96.0	11.1	90	3,100
	6330-0308	3/8"	12.7	15.0	108.6	12.7	60	4,000
	6330-0102	1/2"	17.0	19.0	143.7	16.6	30	7,350







S325X Slip hook (eye end with safety latch)

Manufal Manufal	\$325 \$5316	SIZE (inch)	ØB (mm)	L (mm)	O (m m)	9	S.L. ^(II) (kgs)		
	6325-0014	1/4"	13	91.0	22	200	1,500		
	6325-0051	5/16"	1.6	108.0	24	100	2,900		
	6325-0038	3/8"	18	124.5	28	60	3,200		
	6325-0012	1/2"	24	161.0	37	30	5,400		

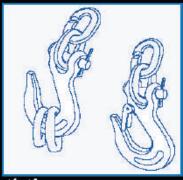
Magnal	\$325X \$8316	SIZE (inch)	ØB (mm)	L (mm)	O (m m)	1	B.L. ^{II)} (kgs)
	6325-5104	1/4"	13	91.0	22	150	1,500
	6325-5516	5/16"	16	108.0	24	100	2,900
	6325-5308	3/8"	18	124.5	28	50	3,200
	6325-5121	1/2"	24	161.0	37	30	5,400

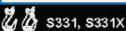












Technical Data Casting material Production : AIS 316 - DIN 1.440B r S331 - Hook - Cest Pin - See chart

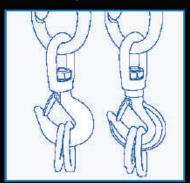
\$331X - Hook - Cast
Pin - See chart
Surface treatment : "E.P." (Blectre polished)

Field of application

Fred of application is a designed for easy loading and unloading of hool/chain systems. Clevis end allows easy assembly to chain with out extra fittings: Slip hools (clevis end with safety latch) are designed for quick assembly ento chain who be extra fitting and provides security for accidental fall out of inserted chain thools system.

Note⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to plage IV - dass 1 load characteristics





S4322, S2511

Technical Data

AISI316 - DIN 1.4408 Casting material Production Production : \$4322 - Hoolo/Solive I - Cart \$2511 - Hoolo/Solive I - Cast Surface treatment | "E.P." @lectro polished)

Field of application

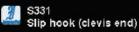
Held or application Slip hooks (swivel end with safety latch) are designed for application where turning is expected. Safety latch prevents accidental fall out of inserted his okydnam system.

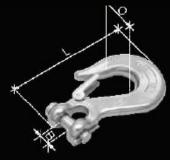
no own an eystem. Heavy slip hooks (swivel end with safety latch) are designed for application where mid air turning of lifted load is expected. Safety latch prevents from accidental fall out of insereted chain in ook system.

Note (2) Standard sefety factor for working load is 1/4 of breaking load.

Refer topage IV-dass 2 load di aracteristics



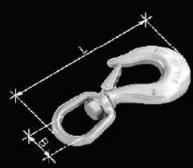






remine .	\$331	SIZE	ØA	В	0	E .	473	B.L. ^{[11)}
Neterial	55316	(inch)	(mm)	(m m)	(mm)	(mm)		(kgs)
	6331-0104	1/4"	91	11.1	22.5	100.0	120	2,000
	6331-0516	5/16"	11	12.7	24.5	112.0	70	3,100
	6331-0308	3/8"	12	15.0	30.0	131.5	40	4,000
	6331-0102	1/2"	16	19.0	36.0	165.5	25	5,600

Marrino Meleriai	\$331X \$8316	SIZE (indh)	ØA (mm)	B (mm)	O (mm)	L (mm)	1	B.L. ⁽¹⁾ (kgs)
	6331-1104	1/4"	9	11.1	22.5	100.0	125	2,000
	6331-1516	5/16"	11	12.7	24.5	112.0	70	3,100
	6331-1308	3/8"	12	15.0	30.0	131.5	40	4,000
	6331-1102	1/2"	16	19.0	36.0	165.5	25	5,600







3 S2511 Heavy slip hook (swivel end with safety latch)

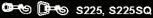
Hem no Newner	S4322 55310	SIZE (inch)	E (mm)	L (mm)	O (mm)	9	B.L. ^{[2)} (kgs)
	6432-2104	1/4"	22.0	119.0	22.5	100	1,700
	6432-2516	5/16"	27.5	141.5	24.0	75	2,600
	6432-2308	3/8"	28.0	160.5	28.5	4.0	3,850
	6462-2102	1/2"	35.7	199.5	36.0	20	5,600
Martini Material	\$2511 ssa16	SIZE (inch)	B (mm)	L (mm)	O (mm)	1	BL. ^(D)
	6251-1001	1"	28.0	150.0	23.5	75	2,000
	6251-1114	1.1/4"	35.7	198.0	29.5	25	4.000





□ **P** Hooks & Snaps





 Technical Data

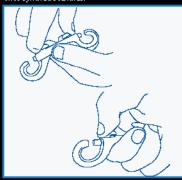
 Casting material
 : AISI304- DIN 1.4308/ AISI316- DIN 1.4408

 Production
 : S225- Snap- Cast

 Surfacetreatment:
 "E.P." (Electro polished)

Field of application

Bolt snaps (swivel end) are designed for a quick and easy attachment of an object such as key. The round swivel end allows fitting onto a chain. Bolt snap (square swivel end) allow the snap to be knitted onto synthetic textiles.





Technical Data

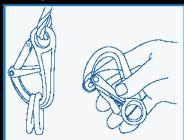
Casting material : AISI316 - DIN 1.4408

Production : S161, S162, S163 - Snap - Cast
: S231, S232, S245 - Snap - Cast
Surface treatment : "E.P." (Electro polished)

Field of application

Bolt snaps (double snap end) are designed for application where a quick and easy fitting is needed to join two loose chains.

Bolt snaps (hook end) are designed for application where a simple fitting is needed to join two loose chain or ropes.





Technical Data

Casting material : AISI316 - DIN 1.4408
Production : S2432 - Hook - Cast
Surface treatment : "E.P." (Electro polished)

Field of application

Double locking safety hooks are designed for application where dose contact with hook is expected. Double safety avoids accidental opening of latch.

Not e:(1) Standard safety factor for working load is 1/4 of breaking load.

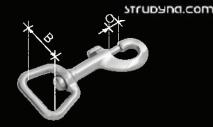
Refer to page IV - dass 2 load characteristics

Not e: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 1 load characteristics

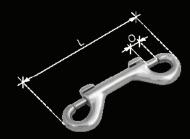






Bolt snap (square swivel end)

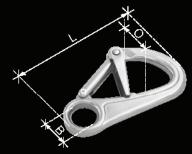
item no. Material	S2	25		SIZE	В		L	0	4	B.L. ^{[1)}
Material	SS304	SS3	16 ((inch)	(m m)	(m	nm)	(m m)		(kgs)
4	225-0308	6225-	0308	3/8"	11.0		63	6.3	1,000	180
4	225-0102	6225-	0102	1/2"	13.5		75	7.0	1,000	250
4	225-0508	6225-	0508	5/8"	17.0		85	8.0	500	650
4	225-0304	6225-	0304	3/4"	20.5		91	8.0	500	650
4	225-1104	6225-	1104	1¼"	33.0	1	20	13.7	170	550
item no.	S22	5SQ	SIZE		В	L		0	4	B.L. ^{[2)}
Material	SS	16	(inch)		(inch)	(m m)		(m m)		(kgs)
	6225	1318	1"3.1/8"		1"	80		7.0	500	180





3 S161, S162, S163 Bolt snap (double snap end) \$231, \$232, \$245
Bolt snap (hook end)

item no. Material	\$161 \$\$316	SIZE (inch)	L (mm)	(O (mm)		B.L. ^{[1)} (kgs)
	6161-0312	3.1/2"	90		6.5	500	180
item no.	S162	SIZE	L		0	7	B.L. ^[1]
Material	SS316	(inch)	(mm)	((mm)		(kgs)
	6162-0004	4"	100		10	400	350
item no.	S 163	SIZE	L		0	4700	B.L. ^[1]
Material	SS316	(inch)	(mm)	((mm)		(kgs)
	6163-0434	4.3/4"	120		11.5	300	360
item no.	S231	SIZE	L	0	01	45	B.L. ^[1]
Material	SS316	(inch)	(mm)	(mm)	(m m)		(kgs)
	6231-3102	3.1/2"	90	10	8	500	190
item no.	S 232	SIZE	L	0	01	(B.L. ^{[1)}
Material	SS316	(inch)	(mm)	(mm)	(m m)		(kgs)
	6232-4140	4.1/4"	105	10	9.5	200	240
item no.	S245	SIZE	L	0	01	4	B.L. ^{[1)}
Material	SS316	(inch)	(mm)	(mm)	(mm)		(kgs)
	6245-5000	5"	130	14	13	200	375

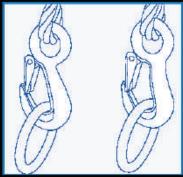


S2432 Double locking safety hook

item no. Material	\$2432 \$8316	SIZE (mm)	ØB (mm)	L (mm)	O (mm)	***	P B C	B.L. ⁽¹⁾ (kgs)
	6243-1019	19	20	109	20	125	3	1,550

E43







\$2311, \$461

Technical Data Easting material

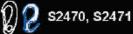
AI 9304 - DON 1.43087 A 9316 - ON 1,448

Production : \$2511 - Hook - Cast | \$461 - Hook - Cast | \$461 - Hook - Cast | \$uracetreatment | "E.R." Electro polished)

Field of application

Field of application
Safety snap hooks (with safety latch) are designed for light loads with wide open hook for insert. Safety latch prevent saccidental fall out of inserted chain/hook system.
Heavy safety snap hooks (with safety latch) are designed for heavier loads then standard design. Wide open hook makes insertion of hook/chain easy. Safety latch prevents accidental fall out of inserted systems.





Technical Data

| Casting material | : AISI204 - DIN 1 A 308/ AISI216 - DIN 1 A 409 | Production | : 5247 0 - Snap - Cast | : 5247 1 - Snap - Cast | Surface treatment | *E.R.** Electro polished)

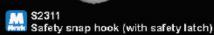
Field of application

Spring snaps (eye end) are designed as a quick and easy fitting for assembly with keys or other objects. Spring snaps (nook end) are designed to be hammered in for salling doth.

Note:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 2 load characteristics







	S461							
Manage Ser	Heavy	safety	snap	hook	(with	safety	latel	ń

Mary In	S2	311	SIZE	ØB	L	0	13	P B	B.L. ⁽¹⁾
	SS304	SS316	(m.m)	(mm)	(mm)	(mm)		(C	(kgs)
	4231-1019	6231-1019	19	19	100	20,4	208	3	750
	4231-1028	6231-1026	3 28	28	119	23.8	150	3	1,000
la mn	S4	161 s	IZE	ØB	L	0	- 4	47	B.L. ⁽¹⁾
Marero	SS	316 (1	nm)	(mm)	(mm)	(mr	n)		(kgs)
	6461	-0090	90	19	90	26		250	1,100







S2471 Spring snaps (hook end)

taterial	S2	470	SIZE	B (mm)	£	0	63	Ī	B.L. ⁽¹⁾ (kgs)
	55304	55316	(mm)		(mm)	(mm)		č	
	98.	6247-0032	32	4.0	32	7	1,500	n/a	80
4	247-0050	6247-0050	50	6.6	50	10	1,200	2	220
4	247-0070	6247-0070	70	9.0	70	14	500	3	500
4	247-0100	6247-0100	100	13.8	98	20	150	3	900

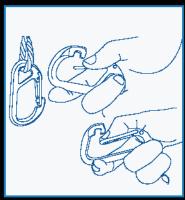
Marana Marana	S2471 55304	SIZE (mm)	B (mm)	L (mm)	O (mm)	73	B.L. ⁽¹⁾ (kgs)
	4247-1050	50	8.5	50	12.8	1,000	250
	4247-1065	65	8.7	65	16.6	500	350
	4247-1090	90	11.5	90	22.8	150	700













SF2431, SF2431X

Technical Data

Forging material : AISI316 - DIN 1 4401
Production : SF2431 - Snap - Forged
SF2431X - Snap - Forged
SF2431X - Snap - Forged
SF2431X - Snap - Forged

Field of application

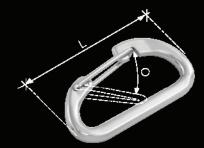
FIELD OF application

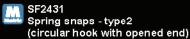
Spring snaps - type2 (circular hook with opened end)
provides a quick and easy solution to joining two
wire or ropes.

Spring snaps - type2 (circular hook with welded
bar end) with welded end bar provides a quick
and easy solution to joining of two wire or eye ends.

Welded end bars provides the location for knitting
of leather or synthetic rope.





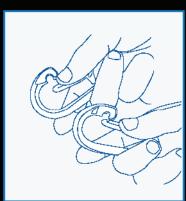




SF2431X Spring snaps - type2 (circular hook with welded bar end)

item no. Malerial	SF2431 SS316	SIZE (mm)	ØD (mm)	L (mm)	O (m m)	***	B.L. ^{[1)} (kgs)
	6243-1006	6	6	60	15	1,000	800
	6243-1008	8	8	80	22	350	1,450
	6243-1010	10	10	100	25	150	2.850
	6243-1012	12	12	120	28	100	3,600

item no. Malerial	SF2431X SS316	SIZE (mm)	Ø D (mm)	L (mm)	O (mm)	*	B.L. ⁽¹⁾ (kgs)
	6243-1106	6	6	60	15	500	800
	6243-1108	8	8	80	22	350	1,650
	6243-1110	10	10	100	25	150	2,850
	6243-1112	12	12	120	28	100	3,600





Technical Data Forging material

: AISI304- DIN 1.4301/ AISI316 - DIN 1.4401 : SF24302 - Snap - Forged Production SF24302B - Snap - Forged Surface treatment: "E.P." (Electro polished)

Field of application

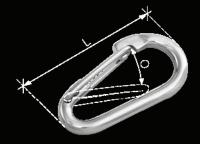
Springsnaps - type1 (circular hook with opened end) provides an easy fitting to joining of two ropes or eye

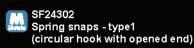
provides an easy fitting to joining or two ropes of eye ends fittings.

Spring snaps (circular hook with an gled latch) with angular pin provides a more comfort opening of the spring during operation.

Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV class 2 load characteristics







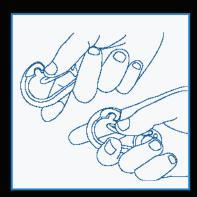
SF24302B Spring snaps (circular hook with angled latch)

temno. Vlaterial	SF24 SS304	4302 SS316	SIZE (mm)	ØD (mm)	L (mm)	O (mm)	***	B.L. ^{[1)} (kgs)
4	243-0206	6243-0206	6	6	60	11.5	700	830
4	243-0208	6243-0208	8	8	80	16.0	350	1,600
4	243-0210	6243-0210	10	10	100	19.0	150	2,500
4	243-0212	6243-0212	12	12	120	28.0	100	3,300

item no. Malerial	SF24 SS304	302B SS316	SIZE (mm)	ØD (mm)	L (mm)	O (mm)	**	B.L. ⁽¹⁾ (kgs)
4	1243-1206	6243-1206	6	6	60	14	700	830
4	1243-1208	6243-1208	8	8	80	20	350	1,600
4	1243-0211	6243-0211	10	10	100	24	150	2,500
4	1243-1212	6243-1212	12	12	120	29	100	3,300







SF24301, SF24301B

Technical Data

Forging material : AISI304 - DIN 1.4301/
Forging material : AISI304 - DIN 1.4401

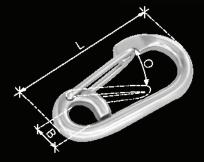
Production : SF24301 - Snap - Forged
SF243018 - Snap - Forged
Surface treatment : "E.P." (Electro polished)

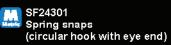
Field of application

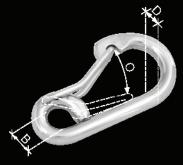
Spring snaps (circular hook with eye end) provides a quick and easy fitting to be linked with chain or

Spring snaps (circular hook, angled latch with eye end) is designed for comfort to the opening of the latch while eye end for assembly onto rope or quick links.









SF24301B Spring snaps (circular hook, angled latch with eye end)

item no. Malerial	SF2 SS304	4301 ss316	SIZE (mm)	B (mm)	ØD (mm)	L (mm)	O (mm)		B.L. ^{[1)} (kgs)
4	243-0106	6243-0106	6	10	6	60	13	600	830
4	243-0108	6243-0108	8	12	8	80	18	300	1,600
4	243-0110	6243-0110	10	15	10	100	21	150	2,500
4	243-0112	6243-0112	12	19	12	120	27	100	3,300

item no. Malerial	SF24 SS304	301B SS316	SIZE	B	Ø D	L (mm)	0		B.L. ⁽¹⁾
	55504	33310	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
4	243-0126	6243-0126	6	10	6	60	13	600	830
4	243-0128	6243-0128	8	12	8	80	18	300	1,600
4	243-0121	6243-0121	10	15	10	100	21	150	2,500
4	243-0122	6243-0122	12	19	12	120	27	100	3,300



SF2430, SF2430B

Technical Data Forging material

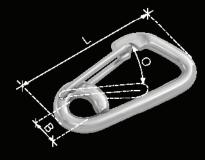
Field of application

Spring snaps (angled hook with eye end) are designed for application where minimum movement of hook is required during loading process.

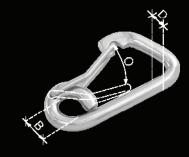
Spring snaps (angled hook and latch with eye end) are designed for comfort during opening of latch while angled hook is designed to minimize movement during loading process.

Not e: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 2 load characteristics



SF2430 Spring snaps (angled hook with eye end)



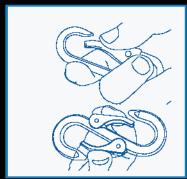
SF2430B Spring snaps (angled hook and latch with eye end)

item no. Malerial	SF2 SS304	2430 SS316	SIZE (mm)	B (mm)	Ø D (mm)	L (mm)	O (mm)	1	B.L. ⁽¹⁾ (kgs)
4.	243-0006	6243-0006	6	10	6	61	12.5	500	750
4.	243-0008	6243-0008	8	12	8	81	17.0	300	1,750
4.	243-0010	6243-0010	10	15	10	102	23.5	150	2,250
4.	243-0012	6243-0012	12	19	12	122	28.0	100	3,650

item no.	SF2	SF2430B		В	ØD	L	0	43	B.L. ⁽¹⁾
Malerial	SS304	SS316	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4243-0306	6243-0306	6	10	6	61	12.5	500	750
- 4	4243-0308	6243-0308	8	12	8	81	17.0	300	1,750
4	4243-0310	6243-0310	10	15	10	102	23.5	150	2,250
	4243-0312	6243-0312	12	19	12	177	28.0	100	3,650

□ PI Hooks & Snaps







Technical Data

 Technical Data

 Casting material
 : AISI304 - DIN 1 / 4308

 Forging material
 : AISI304 - DIN 1 / 4301

 Production
 : S247A - Snap - Cast

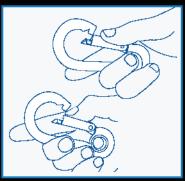
 5247H - Snap - Cast
 5247H - Snap - Forged

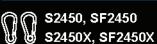
 Surface treatment
 "E.R." (Electro polished)

Field of application

Chain snaps (closed end) are designed to be used for a quick and easy assembly to two separate loose

chains.
Chain snaps (opened end) are designed for quick and easy linking of two seperate loose chains.
Chain snaps (double hook end) are designed for a quick and easy setup with two loose chains or fittings.





Technical Data

Field of application

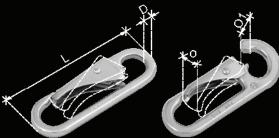
Snap hooks are the standard in use for the assembly of two loose end chain or ropes.
Snap hooks (with eye) are the standard in use to link two loose chain or ropes. Eye end provides extra

security for synthetic ropes or wires.

Not e:(1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 2 load characteristics







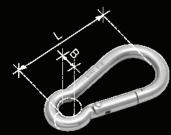


S247H Chain snaps (opened end)



SF878 Chain snaps (double hook end)

itemno.	S247A	SIZE	D	L	O	7	B.L. ⁽¹⁾
Malerial	ss304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4247-7206	6	6	80	11	500	120
itemno.	S247H	SIZE	L	O	O1	(3)	B.L. ^{[1)}
Malerial	SS304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4247-7106	6	75	10.3	8	600	180
itemno.	SF878	SIZE	D	L	O		B.L. ^{[1)}
Malerial	SS304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4878-0006	6	6.8	75.2	12	600	300
	4878-0008	8	9.4	98.0	14	350	550



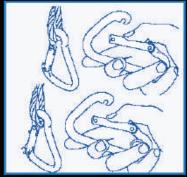




S2450X, SF2450X Snap hook (with eye)

Malerial	\$2450 \$8316	SIZE (mm)	ØB (mm)	ØD (mm)	L (mm)	O (mm)	1	P B C	B.L. ^{[1)} (kgs)
	6245-0004	4	6.6	4.5	33	11.5	2,500	2	100
	6245-0007 6245-0009	7 9	9.5 12.8	8.0 9.0	56 72	20.5 26.5	600 250	n/a n/a	400 700
	6245-0011	11	19.0	11.0	98	35.0	120	n/a	900
	6245-0012	12	22.0	11.0	116	40.0	100	n/a	1,000
	6245-0013	13	22.0	13.0	134	46.0	70	3	1,200
itemno. Malerial	SF2450 SS316	SIZE (mm)	ØB (mm)	ØD (mm)	L (mm)	O (mm)	1	P B C	B.L. ^{[1)} (kgs)
	2245-0005	5	8	5	40	16.0	1,500	2	160
	2245-0060	6	10	6	48	18.0	1,000	2	300
	2245-0080	8	13	8	64	23.5	300	3	600
	2245-0100	10	17	10	80	30.0	200	n/a	800
itemno.	S2450X	SIZE	Øв	ØD	1	0	£ >>	PB	B.L. ^{[1)}
Maderial					_	_	7	В	
Malerial	SS316	(mm)	(mm)	(mm)	(m m)	(mm)		С	(kgs)
Malerial	SS316 6245-0204	4	(m m) 6.5	(mm) 4.5	(mm) 33	(mm) 11.5	2,500	1	(kgs) 100
Malerial	SS316 6245-0204 6245-0207	4 7	(mm) 6.5 8.0	(mm) 4.5 8.0	(m m) 33 56	(mm) 11.5 20.5	2,500 550	1 n/a	(kgs) 100 400
Material	SS316 6245-0204 6245-0207 6245-0209	4 7 9	(mm) 6.5 8.0 11.0	(mm) 4.5 8.0 9.0	(mm) 33 56 72	(mm) 11.5 20.5 26.5	2,500 550 300	1 n/a n/a	(kgs) 100 400 700
Material	SS316 6245-0204 6245-0207 6245-0209 6245-0211	4 7 9 11	(mm) 6.5 8.0 11.0 18.0	(mm) 4.5 8.0 9.0 11.0	(mm) 33 56 72 98	(mm) 11.5 20.5 26.5 35.0	2,500 550 300 120	1 n/a n/a n/a	(kgs) 100 400 700 900
Malerial	SS316 6245-0204 6245-0207 6245-0209	4 7 9	(mm) 6.5 8.0 11.0	(mm) 4.5 8.0 9.0	(mm) 33 56 72	(mm) 11.5 20.5 26.5	2,500 550 300	1 n/a n/a	(kgs) 100 400 700
Malerial itemno.	SS316 6245-0204 6245-0207 6245-0209 6245-0211 6245-0212	4 7 9 11 12	(mm) 6.5 8.0 11.0 18.0 20.0	(mm) 4.5 8.0 9.0 11.0 11.0	(mm) 33 56 72 98 116	(mm) 11.5 20.5 26.5 35.0 40.0	2,500 550 300 120 100	1 n/a n/a n/a n/a 3	(kgs) 100 400 700 900 1,000
	SS316 6245-0204 6245-0207 6245-0209 6245-0211 6245-0212 6245-0213	4 7 9 11 12 13	(mm) 6.5 8.0 11.0 18.0 20.0 20.0	(mm) 4.5 8.0 9.0 11.0 11.0 13.0	(mm) 33 56 72 98 116 134	(mm) 11.5 20.5 26.5 35.0 40.0 46.0	2,500 550 300 120 100	1 n/a n/a n/a n/a	(kgs) 100 400 700 900 1,000
ite mno.	\$\$316 6245-0204 6245-0207 6245-0209 6245-0211 6245-0212 6245-0213 \$\$F2450X \$\$316 2245-0205	4 7 9 11 12 13 SIZE (mm)	(mm) 6.5 8.0 11.0 18.0 20.0 20.0 Ø B (mm)	(mm) 4.5 8.0 9.0 11.0 11.0 13.0 Ø D (mm)	(mm) 33 56 72 98 116 134 L (mm) 40	(mm) 11.5 20.5 26.5 35.0 40.0 46.0 (mm) 16.0	2,500 550 300 120 100 70	1 n/a n/a n/a n/a 3	(kgs) 100 400 700 900 1,000 1,200 B.L. ⁽¹⁾ (kgs)
itemno.	\$\$316 6245-0204 6245-0207 6245-0209 6245-0211 6245-0212 6245-0213 \$\$F2450X \$\$316	4 7 9 11 12 13 SIZE (mm)	(mm) 6.5 8.0 11.0 18.0 20.0 20.0 Ø B (mm)	(mm) 4.5 8.0 9.0 11.0 11.0 13.0 Ø D (mm)	(mm) 33 56 72 98 116 134 L (mm)	(mm) 11.5 20.5 26.5 35.0 40.0 46.0 (mm)	2,500 550 300 120 100 70	1 n/a n/a n/a n/a 3	(kgs) 100 400 700 900 1,000 1,200 B.L. ⁽¹⁾ (kgs)







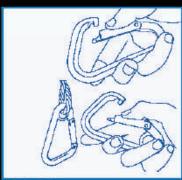
S2490, S2490X

Forging material : AIS 316 - DIN 1.4401 Production : 52490 - Snap - Forge Production : 52490 - Snap - Forged S2490X - Snap - Forged Surface treatment : "E.P." (Electro polished)

Field of application

theavy spring snaps (angled hook) provides a larger opening for more assembly of hooks and eye ends in the same hook. Heavy spring snaps (angled hookwith eye end) provides larger openings well as space for more fittings of hook and eye end to be assembled. Eye endall ows secure strapping of synthetic rope or wire those.







\$369, \$369X

Technical Data

Technical Data
Casting material : AIS:216-DIN1:4408
Production : S369: Stap- Cast
S369X - Stap- Cast
Surface treatment | "E.R." (Electro poliched)

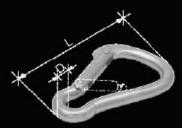
Field of application

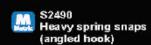
Looking snaps (angled hook) are designed for application where minimum aroused movement is required during loading process.

Lockings naps (angled hook with eye end) are designed for application where minimum swivel movement is required during loading process.

Note: 11 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dissiplied duaracteristics





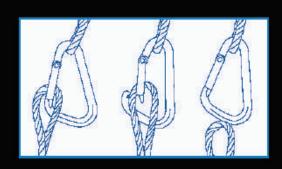


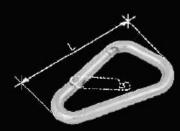
S2490X Heavy spring snaps (angled hook with eye end)

Melenei	\$2490 \$8316	SIZE (mm)	ØD (mm)	L (mm)		O (mm)	1	B.L. ⁽¹⁾ (kgs)
	6249-0009	9	9	90		18	r√a	1,000
Notes	S2490X 55316	SIZE (mm)	ØB (mm)	ØD (mm)	L (m.m)	O (m m)	B	B.L. ⁽¹⁾ (kgs)
	6749-0109	o.	11	101	90	12	n/a	1.000



Be careful the wire rope slide out from the snap







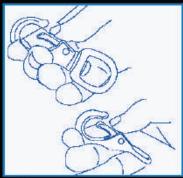


Locking snaps (angled hook with eye end)

Remino Material	\$369 \$8316	SIZE (mm)	ØD (mm)	L (mm)		O (mm)	1	B.L. ⁽¹⁾ (kgs)
	6369-0110	11	11	108		30	125	1,850
kerino Maleral	S369X SS316	SIZE (mm)	ØB (mm)	ØD (mm)	L (mm)	0 (m m)	13	8.L. ⁽¹⁾ (kgs)
	6369-1111	11	16	-11	108	30	125	1,850

■PI Hooks & Snaps







Technical Data

Castingmaterial : AISB04 - DN 1.4308/ AISD16 - DIN 1.4408 Production : 5249 - Snap - Cast S251 - Snap - Cast Surface treatment | "E.R" | Electro polished

Field of application

Eye shaps (fixed ring) are designed for application where a rigid eye end to be strap on to leather belt and a wide open hook for easy insertion is required. Eye shaps (swivel end) are designed specificly for flexibility in use in multiple settings.

Note⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page M-class 2 load characteristics





\$830, \$840

Technical Data Production : ASS04 - DIN 1/4308 Production : S650 - Snap - Cast S840 - Snap - Cast Surface treatment : "E.R." (Electro polished)

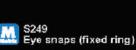
Field of application
Light eye snaps (switel end) provides a quide and easy solution to a snapfitting. Suivel eye end provides maximum flexibility.
Eye snaps (redangular switel end) provides the functionality of a thumb opening with square axivels for knitting of synthetic or leather straps.

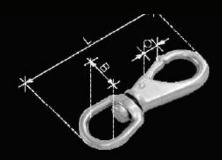
Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 1 load characteristics









S251 Eye snaps (swivel end)

hemna.	S249		SIZE	ØВ	L	0	()	B.L. ⁽¹⁾
Moleral	\$\$304	SS316	(mm)	(mm)	(mm)	(mm)		(kgs)
4	249-0000	6249-0000	0	10	53.5	10.0	1,080	160
4	249-0001	6249-0001	1	16	73.0	1.5.0	500	200
4	249-0002	6249-0002	2	19	81.5	17.0	400	300
4	249-0003	6249-0003	3	19	98.0	23.5	200	450

Permino.	S251		SIZE	ØВ	L	0	£3	B.L. ⁽¹⁾
Molecul	\$\$304	\$8316	(mm)	(mm)	(mm)	(mm)		(kgs)
4	251-0000	6251-0000	0	16.5	69.0	1.0.0	600	200
4	251-0001	6251-0001	1	19.5	85.0	13.0	500	170
4	251-0002	6251-0002	2	20.5	99.0	15.5	300	250
4	251-0003	6251-0003	3	19.5	117.5	20.5	200	340







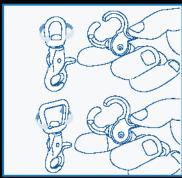
Eye snaps (rectangular swivel end)

memno. Meleral	\$251 \$\$304	SIZE (inch)	ØB (mm)	L (mm)	O (mm)	8	B.L. ⁽¹⁾ (kgs)
	4830-0308	3/8"	11.0	55	9.0	1,000	180
	4830-0102	1/2"	13.5	70	11.5	600	240
	4830-0508	5/8"	17.0	83	14.0	500	325
	4830-0304	3/4"	20.5	89	14.0	450	325
Permitta Proteina	S840 SS304	SIZE (inch)	ØB (mm)	L (mm)	O (mm)	1	B.L. ⁽¹⁾ (kgs)
	4840-0102	1/2"	13	60	6.0	600	50











Technical Data

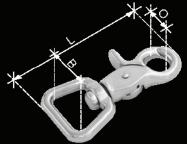
Casting material : AISI304- DIN 1 A308/ AISI316- DIN 1 A408 Production : S5014 - Snap - Cast S5013 - Snap - Cast Surface treatment : "E.R." (Electro polished)

Field of application

Tiger snaps (rectangular swivel end) combines the maximum opening of hook with rectangular swivel for knitting of leather or synthetic straps. Tiger snaps (swivel end) provides the maximum opening of snaps during operation. Swivel end extends it's flexibility.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 1 load characteristics



95044

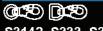






		00014		lo B	L L	0		B.L.
Material	SS304	SS316	(inch)	(m m)	(m m)	(mm)		(kgs)
A	4501-4001	6501-4001	1"	25.4	70	12	500	200
item no.	S50	013	SIZE	ØВ	L	0	4	B.L. ^[1]
Material	SS304	SS316	(inch)	(m m)	(m m)	(mm)		(kgs)
A	4501-3102	6501-3102	1/2"	13.0	66.5	12	600	200
1	4501-3508	6501-3508	5/8"	16.8	69.5	12	500	200





\$3142, \$333, \$3143, \$334

Technical Data

Casting material : AISI316 - DIN 1.4408
Production : S3142 - Snap - Cast
S333 - Snap - Cast

S3143 - Snap - Cast S324 - Snap - Cast Surface treatment : "E.R." (Electro polished)

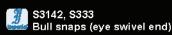
Field of application

Bull snaps (eye swivel end) are designed for heavy duty snap use. The latch is opened outwards with two finger operation. Large swivel all ows extra assembly of chains and hooks to it's swivel. Bull snaps (rectangular swivel end) provides the extra heavy duty application of a snap, with two finger operation latch pulled outward for accidental pushing. Square swivels provides for knitting of leather or synthetic belts.

Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 2 load characteristics







S3143, S334
Bull snaps (rectangular swivel end)

item no.	S3142	SIZE	ØВ	L	0	5	B.L. ^[1]
Material	SS316	(inch)	(mm)	(mm)	(m m)		(kgs)
	6314-2874	7/8" X 4"	25.5	100	17	180	650
item no.	S 333	SIZE	ØВ	L	0		B.L. ^[1]
Material	SS316	(inch)	(mm)	(mm)	(mm)		(kgs)
	6333-0105	1"X 5"	30	130	20	100	1,080
item no.	S3143	SIZE	ØВ	L	0	4	B.L. ^{[1)}
Material	SS316	(inch)	(mm)	(mm)	(mm)		(kgs)
	6314-3118	1.1/8" X 4"	29	130	20	100	1,080
item no.	S334	SIZE	ØΒ	L	0	7	B.L. ^[1]
					4 N		
Material	SS316	(inch)	(mm)	(mm)	(mm)	· ·	(kgs)

□PI Hooks & Snaps



B.L.⁽¹⁾

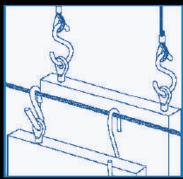
(kgs)

150

100

80

80

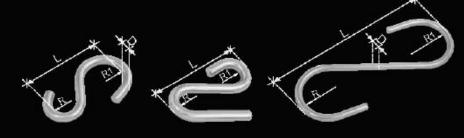




Technical Data
Forging material | | AIS1944 - DIN 1.4301
Production | | SF268 - Hook - Forged
Surface treatment | "E.R." (Electro polished)

Field of application

5-Hooks (type 1) are designed for a quick and easy setup for poster or lables to be hanged from a fixed wire rope or pipe.



S-hook (type 1)

SF880

4880-6080

4880-5120

4880-6160

4880-6200

SF875 S-hook (type 2)

SF880 S-hook (type 3)

Matrial	SF268 55304	SIZE (mm)	ØD (mm)	L (mm)	ØR (mm)	Ø R1 (mm)	1	B.L. ⁽¹⁾ (kgs)
	4268-0002	02019	2	19	3.75	3,75	15,000	15
	4268-0003	03030	3	30	4.50	8.00	2,500	25
	4268-0004	04036	4	36	6.00	9.50	1,500	50
	4268-0005	05043		43	7.00	10.50	1,300	120
	4268-0006	06050		50	7.50	12,50	800	140
	4268-0008	08067	8	67	10.00	16.50	400	250
	4268-1085	10085	10	85	12.50	20.50	200	435



Technical Data
Forging material : AIS 1904 - CIN 1 4501
Production : SF875 - Hock - Forged
Surface treatment : "E.P." (Bed to poliched)

Field of application

S-hooks (type Z) are designed for application where a quick and easy fitting is needed for hanging of a poster or label in a fixed wire.

Maerial	SF875 55304	SIZE (mm)	ØD (mm)	L (mm)	ØR (mm)	Ø R1 (mm)	***	B.L. ⁽¹⁾ (kgs)
	4875-0400	4	4	40	4.0	4.0	1,200	60
	4875-0005	5	5	50	4.5	4.5	900	150
	4875-0006	6	6	60	6.0	6.0	680	200
	4875-0008	8	В	75	8.0	8.0	300	400
	4875-0009	9		85	9.0	9.0	200	6.50
	4875-0010	10	10	700	9.0	9.0	150	600
	4875-0012	12	12	120	11.0	11.0	100	1,150

(mm)

80

200 240

(mm)

(mm)

12,5

600

(mm)

(mm)

6080

6120

6160

6200



Technical Data

Forging martial : AIS1204 - DIN 1.4301 Production : SF880 - Hook - Forged Surfacetreatment : "E.R." (Electro polished)

Field of application
Shooks (type 3) are designed for quick and easy hanging of poster or pictures onto a horizontal pole or wire.

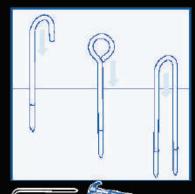
 ${f Note}^{f H}$ Standard safety factor for working load is 1.4 of breaking load.







Hooks & Snaps □□□





Technical Data

Forging material : AIS 1304 - CIN 1 4301 Production : SFU-Bar - Forged Surface treatment : "E.R." (Electro-polished)

Field of application

U-bars are designed for insertion into soil or wood by hammering this is used to secure a tent or other objects in place.



SFJ

Technical Data

Forgingmaterial : AISB04-DIN 14301 Production : SEJ-Hook-Forged Surfacetreatment : "E.R." (Electro polished)

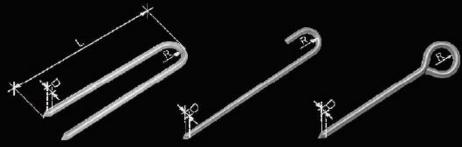
Field of application
J. Hooks are designed to be inserted into soil or wood to hold astring of a camping tent or an object.



SFH

Technical Data
Forging material : AIS 204 - CIN 1 4301
Production : SFH - Bar - Forged
Surface treatment : "E.R." (Electro polished)

Field of application
Closed eye bars are designed to be inserted with hammer into soil or wood to withhold the strings of a tent or other objects in place.



SFJ J-hook

SFH Closed eye bar

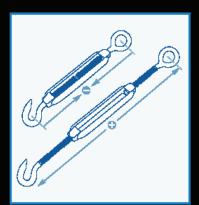
Permition.	SFU SS304	SIZE (mm)	(Ø D (mm)	L (mm)	ØR (mm)	8
	4000-0032	6100	6	100	10.5	500
	4000-0033	6150		150	10.5	400
	4000-0034	6200	6	200	10.5	300

Nemno.	SFJ	SIZE	ØD	L	ØR	(ES)
Moral I	SS304	(mm)	(mm)	(mm)	(mm)	100
	4000-6150	6150	6	150	10.5	500
	4000-6200	6200	6	200	10.5	400
	4000-6250	6250		250	10.5	300
	4000-6300	6300		300	10.5	300

Pater Si	SFH 99304	SIZE (mm)	ØD (mm)	L (mm)	ØR (mm)	(F)
	4006-0150	06150	6	150	10.50	600
	4005-0200	06200	6	200	10.50	450
	4006-0250	06250	6	250	10.50	200
	4006-0300	06300		300	10.50	250
	4009-0150	09150	9	150	10.25	250
	4009-0200	09200	9	200	10.25	200
	4009-0300	09300	9	300	10.25	150
	4013-0300	13300	73	300	12.50	50
	4013-0450	13450	13	450	12.50	60
	4331-3500	13500	13	500	12.50	50
	4013-0600	13600	13	600	12.50	40
	4013-1000	131000	13	1,000	12.50	25









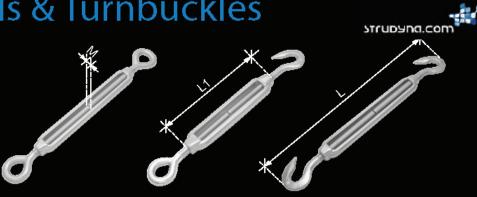
S311EE

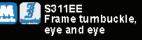
Technical Data

: AISI304 - DIN 1.4308/ AISI316 - DIN 1.4408 : AISI304 - DIN 1.4301/ AISI316 - DIN 1.4401 Casting material Forging material : S311EE - Frame - Cast Eye - Forged Production Surface treatment: "E.P." (Electro polished)

Field of application

Frame turnbuckle, eye and eye provides tensioning of two loose open ends.







S311HE Frame turnbuckle, hook and eye



S311HH Fram e turnbuckle, hook and hook

	I1EE	SIZE	L	L1	М	(B.L. ^[0]
SS304	SS316	(mm)	(mm)	(mm)	(thread)		(kgs)
4311-2205	6311-2205	5.0	124	70	M5	500	680
4311-2206	6311-2206	6.0	154	90	M6	250	1,500
4311-2208	6311-2208	8.0	210	120	M8	150	2,300
4311-2210	6311-2210	10.0	257	150	M10	n/a	3,100
4311-2212	6311-2212	12.0	325	200	M12	n/a	4,400
4311-2216	6311-2216	16.0	390	250	M16	n/a	8,100
4311-0020	6311-0020	20.0	510	300	M20	n/a	11,000
4311-0005	6311-0005	3/1 <i>6</i> "	124	70	3/16"	n/a	650
4311-0006	6311-0006	1/4"	154	90	1/4"	250	1,300
4311-0008	6311-0008	5/1 <i>6</i> "	210	120	5/16"	n/a	2,100
4311-0009	6311-0009	3/8"	257	150	3/8"	n/a	2,500
4311-0012	6311-0012	1/2"	325	200	1/2"	50	4,500
4311-0016	6311-0016	5/8"	390	250	5/8"	n/a	6,700
4311-0019	6311-0019	3/4"	510	300	3/4"	n/a	10,500



Technical Data

AISI304 - DIN 1 4308/ AISI316 - DIN 1 4308 : AISI304 - DIN 1 4401/ AISI316 - DIN 1 4301 : S311HE - Frame - Cast Hook/Eye - Forged Casting material Forging material Production Surface treatment: "E.P." (Electro polished)

Field of application

Frame turnbuckle, hook and eye provides tensioning of one fixed end with hook and one open end.

	1HE	SIZE	L	LI	M	1	B.L. ^[0]
Material SS304	SS316	(mm)	(mm)	(mm)	(thread)		(kgs)
4311-3304	6311-3304	4.0	103	60	M4	1,000	100
4311-1045	6311-1045	4.5	98	45	M5	1,000	130
4311-3305	6311-3305	5.0	124	70	M5	500	130
4311-3306	6311-3306	6.0	162	90	M6	250	350
4311-3308	6311-3308	8.0	210	120	M8	150	650
4311-3310	6311-3310	10.0	256	150	M10	100	800
4311-3312	6311-3312	12.0	330	200	M12	50	1,400
4311-3316	6311-3316	16.0	400	250	M16	20	2,400
4311-3320	6311-3320	20.0	495	300	M20	15	3,500
4311-1005	6311-1005	3/16"	124	70	3/16"	500	130
4311-1006	6311-1006	1/4"	162	90	1/4"	250	350
4311-1008	6311-1008	5/16"	210	120	5/16"	150	650
4311-1009	6311-1009	3/8"	256	150	3/8"	100	800
4311-1012	6311-1012	1/2"	330	200	1/2"	50	1,400
4311-1016	6311-1016	5/8"	400	250	5/8"	12	2,400
4311-1019	6311-1019	3/4"	495	300	3/4"	15	3,500



S311HH

Technical Data

: AISI304 - DIN 1.4308/ AISI316 - DIN 1.4408 : AISI304 - DIN 1.4301/ AISI316 - DIN 1.4401 Casting material Forging material Production : S311HH - Frame - Cast Hook - Forged Surface treatment : "E.P." (Electro polished)

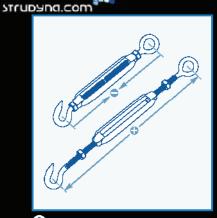
Field of application

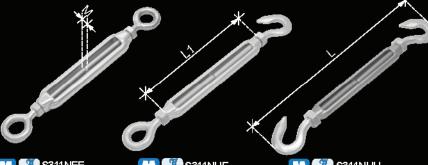
Frame turnbuckle, hook and hook provides simple tensioning of two closed ends.

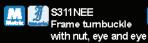
Note:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 2 load characteristics

	1HH	SIZE	L	L1	M	4	B.L. ^[1]
SS304	SS316	(mm)	(mm)	(mm)	(thread)		(kgs)
4311-4405	6311-4405	5.0	124	70	M5	500	130
4311-4406	6311-4406	6.0	170	90	M6	250	350
4311-4408	6311-4408	8.0	208	120	M8	150	650
4311-4410	6311-4410	10.0	266	150	M10	100	800
4311-4412	6311-4412	12.0	335	200	M12	50	1,400
4311-4416	6311-4416	16.0	415	250	M16	20	2,400
4311-4420	6311-4420	20.0	485	300	M20	15	3,500
4311-1105	6311-1105	3/16"	124	70	3/16"	500	130
4311-1106	6311-1106	1/4"	170	90	1/4"	250	350
4311-1108	6311-1108	5/16"	208	120	5/16"	150	650
4311-1109	6311-1109	3/8"	266	150	3/8"	100	800
4311-1112	6311-1112	1/2"	335	200	1/2"	50	1,400
4311-1116	6311-1116	5/8"	415	250	5/8"	20	2,400
4311-1119	6311-1119	3/4"	485	300	3/4"	15	3,500







\$311NHE Frame turnbuckle with nut, hook and eye \$311NHH Frame turnbuckle with nut, hook and hook



S311NEE Technical Data

: AISI316 - DIN 1.4408 : AISI316 - DIN 1.4401 : S311NEE - Frame - Cast Casting material Forging material Production Eye - Forged Surface treatment : "E.P." (Electro polished)

Field of application

Frame turnbuckle with nut, eye and eye provides a locking function after the fittings are securely



s311N	EE SIZE	L	L1	M	43	B.L. ^{[1)}
Material SS316	(mm)	(mm)	(mm)	(thread)		(kgs)
6311-67	04 4	102	60	M4	1,000	475
6311-70	005 5	124	70	M5	500	680
6311-70	006 6	154	90	M6	250	1,500
6311-70	8 800	210	120	M8	150	2,300
6311-70	10 10	257	150	M10	100	3,100
6311-70	12 12	325	200	M12	50	4,400
6311-70	16 16	390	250	M16	25	8,100
6311-70	20 20	510	300	M20	15	11,000
6311-67	05 3/16"	124	70	3/16"	500	650
6311-67	06 1/4"	154	90	1/4"	250	1,300
6311-67	08 5/16"	210	120	5/16"	150	2,100
6311-67	709 3/8"	257	150	3/8"	100	2,500
6322-67	12 1/2"	325	200	1/2"	50	4,500
6311-67	16 5/8"	390	250	5/8"	15	6,700
6311-67	19 3/4"	510	300	3/4"	15	10,500



Technical Data

: AISI316 - DIN 1 4408 : AISI316 - DIN 1 4401 : S311NHE - Frame - Cast Casting material Forging material Production Hook/Eye - Forged Surface treatment : "E.P." (Electro polished)

Field of application

Frame turnbuckle with nut, hook and eye provides extra locking function after turnbuckle has been

S311NHE Material SS316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	**	B.L. ^{[1)} (kgs)
6311-6804	4	103	60	M4	1,000	100
6311-7105	5	124	70	M5	500	130
6311-7106	6	162	90	M6	250	350
6311-7108	8	210	120	M8	150	650
6311-7110	10	256	150	M10	100	800
6311-7112	12	330	200	M12	50	1,400
6311-7116	16	400	250	M16	25	2,400
6311-7120	20	495	300	M20	15	3,500
6311-6805	3/16"	124	70	3/16"	500	130
6311-6806	1/4"	162	90	1/4"	250	350
6311-6808	5/16"	210	120	5/16"	150	650
6311-6809	3/8"	256	150	3/8"	100	800
6311-6812	1/2"	330	200	1/2"	50	1,400
6311-6816	5/8"	400	250	5/8"	20	2,400
6311-6819	3/4"	495	300	3/4"	15	3,500



Technical Data

: AISI316 - DIN 1 4408 : AISI316 - DIN 1 4401 : S311NHH - Frame - Cast Hook - Forged Casting material Forging material Production Surface treatment: "E.P." (Electro polished)

Field of application

Frame turnbuckle with nut, hook and hook provides extra locking function after the turnbuckle has been securely tightened.

Note: 10 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 2 load characteristics

S311NHF Material SS316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	**	B.L. ^{[1)} (kgs)
6311-6904	4	103	60	M4	1,000	100
6311-7205	5	124	70	M5	500	130
6311-7206	6	170	90	M6	250	350
6311-7208	8	208	120	M8	150	650
6311-7210	10	266	150	M10	100	800
6311-7212	12	335	200	M12	50	1,400
6311-7216	16	415	250	M16	20	2,400
6311-7220	20	485	300	M20	15	3,500
6311-6905	3/16"	124	70	3/16"	500	130
6311-3906	1/4"	170	90	1/4"	150	350
6311-6908	5/16"	208	120	5/16"	150	650
6311-6909	3/8"	266	150	3/8"	100	800
6311-6912	1/2"	335	200	1/2"	50	1,400
6311-6916	5/8"	415	250	5/8"	20	2,400
6311-6919	3/4"	485	300	3/4"	15	3,500

S311JE

3311JJ

55316

6311-6405

6311-6406

6311-6408

6311-6310

6311-6312

6311-6314

6311-6316

6311-7719

6312-0119



B.L. (2)

(kgs)

1.400

2,200

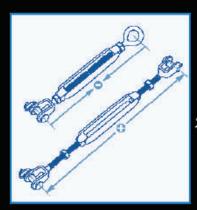
3,450

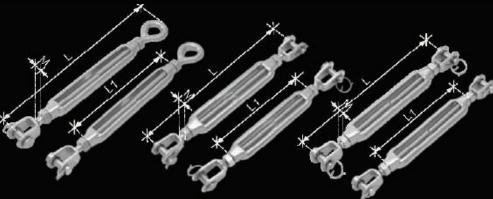
5,000 6,400

10,500

10,500

750





S312



S311JE

Technical Data

Casting material : AISI316 - DIN 1 A408
Forging material : AISI316 - DIN 1 A400
Production : S311JE - Frame - East
Istra - Forgad
Eye - Weildal
Ancessory - S

Surface freatment ; "E.R." (Electro polished).

Field of application

Frame tumbuckles, jaw and eye are designed to tighten two loose end while turning of the frame body itself.

Note: ** Standard safety factor for working load is 1./4 of breaking load.

Refer to page IV- dass 1 load tharacteristics



(mm)

70

90

150

200

200

300

(thread)

MIS

M110

M12

MAZO.

Accessory

Ring

Ring

Ring

Ring

Ring

Cotter pin

Cotter pin

Cotter pin

500

300

S311JJ

(mm)

114

220

296

328

436

(mm)

6

8

10

12

14

16

20

3/4"



S311JJ

Technical Data

Field of application

Frame tumbuckles, jaw and jaw (metri othread) are designed to tighten two loose end while turning of the frame body itself:



S312

Technical Data

Casting material : AISB 16 - DIN 1.4408
Forging material : AISB 16 - DIN 1.4401
Production : SB 12 - Frame - Bast Jan - Forged Accessory - See chart
Surface freatment : "E.R." (Electro polished)

Field of application

Frame tumbuckles, jaw and jaw (inch thread) are specially designed for the U.S. market.

Not e: *** Standard safety factor for working load is 1./4 of breaking load.

Refer to page IV - dass 3 load characteristics

rtemno. Material	S312 55316	SIZE (inch)	L (mm)	L1 (mm)	M (thread)	Accessory	8	B.L. ⁽²⁾ (kgs)
	6312-0005	3/16"	114	70	3/16"	Ring	500	750
	6312-0006	1/4"	137	90	1/4"	Ring	300	1,400
	6312-0008	5/16"	179	120	5/16*	Ring	150	2,200
	6312-0010	3/8"	220	150	3/8"	Ring	80	3,450
	6312-0012	1/2"	296	200	1/2"	Ring	50	5,000
	6312-0013	1/2"UNC	296	200	1/2"UNC	Ring	40	5,000
	6312-0016	5/8"	328	200	5/8"	Cotter pin	1.5	8,000









B.L.⁽¹⁾

(kgs)

680

1,500

2.300

3,100

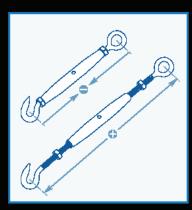
4.400

8,000

10,000

2.400

3,500





Technical Data

AISI316- DIN 1.4401 Production : Surface treatment : SF312PEE- Eye - Welded "M.F." (Matte finished)

Field of application
Pipe turnbuckles, eye and eye are designed for circular appearance of turnbuckle while concealing the threads within the pipe for aesthetic reasons.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 2 load characteristics







SF312PHE Pipe turnbuckle, hook and eye





SIZE

(mm)

6

8

10

12

16

20

(mm)

164

235

280

360

407

SF312PEE

88316

6312-3105

6312-3106

6312-3108

6312-3110

6312-3112

6312-3116

6312-3120

6312-0021

6312-0022

16

20



SF312PJE Pipe turnbuckle, jaw and eye

600

300

200

100

50

25

15

20

(thread)

M5

M6

M8

M10

M12

M16

M20

M16

M20

	C-1	-
SE3	12DHE	

Technical Data

Forging material Production AISI316- DIN 1.4401 SF3 12PHE- Hook - Forged Eye - Welde Surface treatment : "**M.F."** (Matte finished)

Field of application

Pipe turnbuckles, hook and eye are designed for circular appearance of turnbuckle while concealing the threads within the pipe for aesthetic reasons.

item no. Material	SF312PHE SS316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	1	B.L. ⁽¹⁾ (kgs)
	6312-3205	5	137	80	M5	600	130
	6312-3206	6	164	90	M6	300	350
	6312-3208	8	196	105	M8	175	650
	6312-3210	10	235	125	M10	100	800
	6312-3212	12	288	150	M12	50	1,400
	6312-1416	16	362	190	M16	20	2,400
	6312-0020	19	399	210	M20	15	3,500

L1

(mm)

80

90

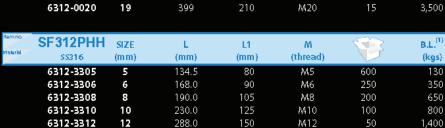
105

125

150

190

210



190

210

357.0

395.0

(2)	
SE312D	ЦЦ

Technical Data Forging material

AISI316- DIN 1.4401 Production : Surface treatment : SF312PHH - Hook - Forged "M.F." (Matte finished)

Field of application
Pipe turnbuckles hook and hook are designed for circular appearance of turnbuckle while concealing the threads within the pipe for aesthetic reasons.



SF312PJE

Technical Data AISI316 - DIN 1.4401 SF3 12P JE - Jaw - Forged Eye - Welded

Accessory - See chart Surface treatment: "M.F." (Matte finished)

Field of application

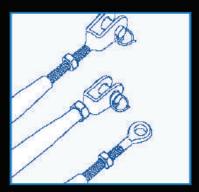
Pipe turnbuckles, jaw and eye are designed for circular appearance of turnbuckle while concealing the threads within the pipe for aesthetic reasons

Note.⁽²⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 1 load characteristics

item no. Malerial	SF312PJE 88316	SIZE (mm)	L (mm)	L1 (m m)	M (thread)	Accessory	13	B.L. ⁽¹⁾ (kgs)
	6312-3405	5	119	80	M5	Ring	n/a	680
	6312-3406	6	146	90	M6	Ring	500	1,400
	6312-3408	8	176	105	M8	Ring	300	2,200
	6312-3410	10	209	125	M10	Ring	150	3,100
	6312-3412	12	260	150	M12	Ring	60	4,400
	6312-3416	16	299	190	M16	Cotter pin	n/a	8,000
	6312-3420	20	383	210	M20	Cotter pin	n/a	10,000







Technical Data

Technical Data
Forging material : A19316 - DIN 1.4401
Production : SFS1.29 - Jaw - Forged
Accessory - See chart
Surface treatment : "M.F." (Warte finished)

Field of application

Pipe turnbuckles, jaw and jaw are designed for circular appearance of turnbuckle while concealing the threads within the pipe for sesthetic reasons.

Note:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer topage IV - dass 3 load characteristics



SF312/7

Technical Data
Forging material : AISI316 - DIN 1 4401
Production : SF31 27 - Eye/Jaw - Forged
Accessory - See chart Surface treatment: "M.F." (Matte finished)

Field of application

Pipe turn buddles, jaw and eye are designed for discular appearance of turn buddle while conceiling the threads within the pipe for aesthetic reasons.

Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to plage (V - class T load characteristics

X	So a V	Bo.	
		*	*
	× *		
8			
*	· Q	×	

Pipe tumbuckle, jaw and jaw

SF312/7 Pipe turnbuckle, jaw and eye

Pipe tumbuckle, eye and eye

Potrol	SF312P SS316	SIZE (mm)	L (mm)	L1 (mm)	(thread)	Accessory	T	Dan C	B.L. ⁽¹⁾ (kgs)
	6312-0505	5	115	80	PA5	Ring	500	4	750
	6312-0506	6	142	90	146	Ring	250		1,400
	6312-0508	8	160	105	MAS	Ring	150	4	2,200
	6312-0510	10	200	125	MITO	Ring	100		3,450
	6312-0512	12	245	150	M12	Ring	50	n/a	5,000
	6312-0514	14	280	165	M14	Cotter pin	35	n/a	6,400
	6312-0616	16	304	190	M16	Cotter pin	20	rula	8,000
	6312-9220	20	350	210	M20	Catter pin	12	n/a	10,500
	6312-0524	24	445	250	M24	Cotter pin	8	rī/a	14,500

Remino POAS GI	SF312/7 SS316	SIZE (mm)	L (mm)	L1 (mm)	(thread)	Accessory	*	P II C	8.L. ⁽²⁾ (kgs)
E	6312-7005	5	130	80	M5	Ring	500	4	750
F	6312-7006	6	135	90	146	Ring	300		1,400
F	6312-7008	8	165	105	NAS.	Ring	150	4	2,200
	6312-7010	10	200	125	MATO	Ring	100	4	3,450
E	6312-7012	12	240	150	MIZ	Ring	50	n/a	5,000
E	6312-7014	14	270	165	1414	Cotter pin	35	n/a	6,400
F	6312-7016	16	29.5	190	NA16	Cotter pin	20	nva	8,000
E	6312-7020	20	340	210	RAZO.	Cotter pin	12	n/a	10,500



SF3127P

Technical Data
Forging material : A19316 - DIN 1,4461
Production : SF31 27P - Eye - Forged
Surface trestiment : "M.F." (Matte linished)

Field of application

Pipe turnbuckles eye and eye are designed for circular appearance of turnbuckle while concealing the threads within the pipe for aesthetic reasons.

Note: Standard safety factor for working load is 174 of breaking load.

Refer to page IV - class 7 load characteristics

itemno.	SF3127P	SIZE	Ü	L1	M	()	B.L. ⁽³⁾
Potral	SS316	(mm)	(m m)	(mm)	(thread)		(kgs)
	6312-7705	5	125	80	MS	1,000	750
•	6312-7706	6	135	90	M6	400	1,000
F	6312-7708	8	165	105	886	200	2,200
	6312-7710	10	185	125	M10	100	3,000
	6312-7712	12	225	150	M12	80	5,000
	6312-7714	14	255	165	8614	35	6,100
E	6312-7716	16	275	190	M16	25	8,000
1	6312-7720	20	338	210	M20	15	10.500

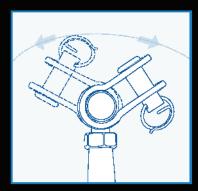














S3125/7

Technical Data Technical Data
Casting material : AISI316 - DIN 1.4408
Production : S3125/7 - Eye - Forged
Toggle - Cast

Accessory - See chart Surface treatment : "M.F." (Matte finished)

Field of application

Pipe turnbuckles, eye and toggle are designed for circular appearance of turnbuckle while concealing the threads within the pipe for aesthetic reasons.

Note: 11 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 1 load characteristics

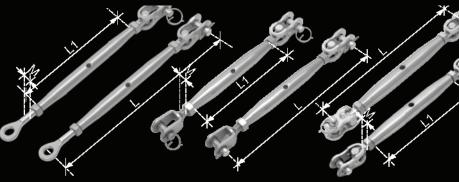


S312/5

Field of application

Pipe turn buckles, toggle and jaw are designed for circular appearance of turn buckle while concealing the threads within the pipe for aesthetic reasons.





Pipe turnbuckle, eye and toggle

S312/5 Pipe turnbuckle, toggle and jaw

Pipe turnbuckle, toggle and toggle

item no. Material	\$3125/7 \$8316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	Accessory	1	P B C	B.L. ⁽²⁾ (kgs)
F	6312-5805	5	135	80	M5	Ring	500	4	500
F	6312-5806	6	140	90	M6	Ring	250	4	900
F	6312-5808	8	175	105	M8	Ring	150	4	1,650
F	6312-5810	10	210	125	M10	Ring	100	4	2,500
F	6312-5812	12	245	150	M12	Ring	50	n/a	3,700
F	6312-5714	14	280	165	M14	Cotter pin	35	n/a	5,000
F	6312-5716	16	310	190	M16	Cotter pin	25	n/a	6,950
E	6312-5120	20	367	210	M20	Cotter pin	15	n/a	9,600

itemno. Material	S312/5 SS316	SIZE (mm/inch)	L (mm)	L1 (mm)	M (thread)	Accessory	*	P B C	B.L. ⁽²⁾ (kgs)
	6312-4005	5	124	80	M5	Ring	350	4	500
	6312-4006	6	150	90	M6	Ring	200	4	900
	6312-4008	8	170	105	M8	Ring	150	4	1,650
	6312-4010	10	205	125	M10	Ring	75	4	2,500
	6312-4012	12	265	150	M12	Ring	35	n/a	3,700
	6312-4014	14	280	165	M14	Cotter pin	25	n/a	5,000
	6312-1054	16	335	190	M16	Cotter pin	15	n/a	6,950
	6312-4020	20	375	210	M20	Cotter pin	12	n/a	9,600
	6312-4613	3/16"	124	80	3/16"	Ring	350	n/a	500
	6312-4401	1/4"	150	90	1/4"	Ring	200	n/a	900
	6312-4615	5/16"	170	105	5/16"	Ring	100	n/a	1,650
	6312-4803	3/8"	205	125	3/8"'	Ring	75	n/a	2,500
	6312-4201	1/2"	265	150	1/2"	Ring	35	n/a	3,700
	6312-4805	5/8"	335	190	5/8"	Cotter pin	15	n/a	6,950



S3125

Field of application

Pipe turn buckles, toggle and toggle are designed for draular appearance of turn buckle while concealing the threads within the pipe for aesthetic reasons.

Note: (2) Standard safety factor for working load is 1/4 of breaking load.

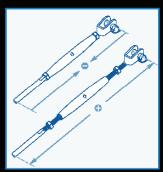
Refer to page IV - class 3 load characteristics

itemno. Material	\$3125 \$\$316	SIZE (m m)	L (mm)	L1 (mm)	M (thread)	Accessory	*	B.L. ⁽²⁾ (kgs)
	6312-1052	5	131	80	M5	Ring	350	500
	6312-5006	6	148	90	M6	Ring	200	900
	6312-5008	8	180	105	M8	Ring	140	1,650
	6312-5010	10	220	125	M10	Ring	75	2,500
	6312-5012	12	258	150	M12	Ring	35	3,700
	6312-1061	14	295	165	M14	Cotter pin	25	5,000
	6312-5016	16	335	190	M16	Cotter pin	15	6,950
	6312-5020	20	385	210	M20	Cotter pin	10	9,600











SF3121/7

Technical Data

Forging material : AISI316 - DIN 1.4401

Production : SF3121/7 - Eye - Forged

Terminal - Forged

Surface treatment : "M.F." (Matte finished)

Field of application

Pipe turnbuckles, eye and swage stud are designed for tightening of one loose end to a wire rope. The wire rope must be awaged properly with a awaging machine.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 4 load characteristics





S3121P, SF3121P

Technical Data

Forging material : AISI316 - DIN 1.4401
Production : S3121P - Jaw - Forged
Terminal - Forg

Terminal - Forged
Nut - Cast
Accessory - See chart
SF3121P - Jaw/Nut - Forged
Terminal - Forged
Accessory - See chart

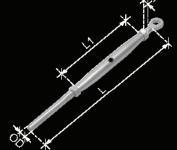
Surface treatment: "M.F." (Matte finished)

Field of application

Pipe turnbuckles, jaw and swage stud are designed for tightening of one loose end to a wire rope. The wire rope must be swaged properly with a swaging machine.

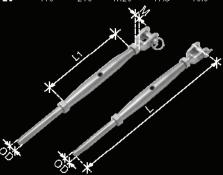
Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page N - class 5 load characteristics



SF3121*II*Pipe turnbuckle, eye and swage stud

item no. Material	SF3121/7	SIZE	L	L1	M		ia Ø Cable	F	PB	B.L. ^(t)
	SS316	(mm)	(mm)	(mm)	(thread)	(mm)	(mm)		C	(kgs)
E	6312-1063	5	156	80	M5	5.5	2.5	600	4	600
E	6312-1055	6	163	90	M6	6.3	3.0	400	4	1,000
E	6312-1051	8	200	105	M8	7.5	4.0	200	4	1,400
E	6312-1056	10	238	125	M10	9.1	5.0	100	4	2,200
E	6312-1057	12	284	150	M12	12.5	6.0	50	n/a	4,000
E	6312-1058	14	312	165	M14	14.3	7.0	50	n/a	5,400
F	6312-1059	16	360	190	M16	16.1	8.0	35	n/a	6,500
E	6312-1785	20	410	210	M20	17.8	10.0	15	n/a	8,500



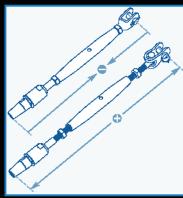


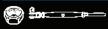
item no. Materia I	\$3121P \$8316	SIZE (mm/inch)	L (mm)	L1 (mm)	M (thread)	OD (mm)	Dia Ø Cabl (mm)	e Accessory	B.L. ⁽¹⁾ (kgs)
	6312-1415	10*M20	415	210	M20	17.8	10	Cotter pin	600
	6312-1068	1/2"*3/4"UNC	462	210	3/4"UNC	21.4	1/2"	Ring	1,000

	SF3121P	SIZE	L	L1	M	OD I	Dia Ø Cable	ē	43	P B C	B.L. ^{[1)}
/aterial	SS316	(mm/inch)		(mm)	(thread)	(m m)	(m m)	Accessory		(c)	(kgs)
	6312-1017	5	150	80	M5	5.5	2.5	Ring	600	4	600
	6312-1016	6	170	90	M6	6.3		Ring	350	4	1,000
	6312-1018	8	205	105	8M	7.5		Ring	200	4	1,400
	6312-1009	10	240	125	M10	9.1	5.0	Ring	100	4	2,200
	6312-1010	12	295	150	M12	12.5	6.0	Ring	50	n/a	4,000
	6312-1011	14	325	165	M14	14.3		Cotter pin		n/a	5,400
	6312-1070	16	370	190	M16	16.1		Cotter pin		n/a	6,500
	6312-1071	20	405	210	M20	17.8		Cotter pin		n/a	8,500
	2312-1068	2*M5	151.5	80	M5	5.5		Ring	600	n/a	600
	6312-1122	3*M5	142	80	M5	6.3	3.0	Ring	600	n/a	600
	6312-1050	4*M6	185	90	M6	7.5		Ring	350	n/a	1,000
	6312-1064	5*M8	210	105	M8	9.1	5.0	Ring	200	n/a	1,400
	2312-1072		297.25		M12	14.3	7.0	Ring	n/a	n/a	4,500
	6312-1098	8*M12	303	150	M12	16.1	8.0	Ring	40	n/a	4,500
	2312-1073	8*M14	328	165	M14	16.1		Cotter pin		n/a	6,000
	2312-1074	10*M16	380	190	M16	17.8		Cotter pin		n/a	8,200
	6312-1455	12*M20	414	210	M20	21.4		Cotter pin		n/a	12,500
	2312-1461	16*M24	610	250	M24	28.2		Cotter pin			18,500
		3/32"*M5		80	M5	5.5		Ring	600	n/a	600
	6312-1007	1/8"*M5	156	80	M5	6.3		Ring	600	n/a	600
	6312-1008	1/8"*M6	170	90	M6	6.3		Ring	350	n/a	1,000
	6312-6028	5/32"*M6		90	M6	7.5		Ring	350	n/a	1,000
	6312-1023			105	M8	7.5		Ring	500	n/a	1,400
	6312-1015			105	M8	9.1	3/16"	Ring	200	n/a	1,400
	6312-1027			125	M10	9.1	3/16"	Ring	125	n/a	2,200
		1/4"*M10		125	M10	12.5		Ring	75	n/a	2,200
		1/4"*M12		150	M12	12.5	1/4"	Ring	50	n/a	4,000
	6312-1041	5/16"*M12	2 310	150	M12	16.1	5/16"	Ring	40	n/a	4,000









S3121/5

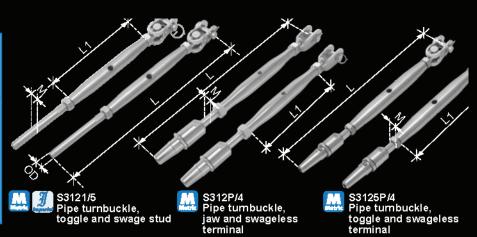
Technical Data : AISI316 - DIN 1.4408 : AISI316 - DIN 1.4401 Casting material Forging material Production

Production : \$3121/5 - Swivel toggle - Cast
Terminal - Forged
Accessory - See chart
Surface treatment : "M.F." (Watte finished)

Field of application

Pipeturnbuckles toggleand swage stud are designed for tightening of one loose end to a wire rope. The wire rope must be swaged properly with a swaging machine.





emno. Isterial	S3121/5 SS316	SIZE (mm/inch)	L (mm)	L1 (mm)	M (thread)	OD (mm)	Dia Ø Cabl (mm)	e Accessory	8	P B C	B.L. ⁽¹⁾ (kgs)
	6312-5047	2.5	155	80	M5	5.5	2.5	Ring	400	4	600
	6312-1044	3	172	90	M6	6.3	3.0	Ring	250	4	1,000
	6312-1076	4	171	90	M6	7.5	4.0	Ring	200	4	1,000
	6312-1045	4	210	105	M8	7.5	4.0	Ring	150	4	1,400
	6312-1077	5	216	105	M8	9.1	5.0	Ring	125	n/a	1,400
	6312-1035	5	246	125	M10	9.1	5.0	Ring	100	n/a	2,200
	6312-1036	6	296	150	M12	12.5	6.0	Ring	50	n/a	4,000
	6312-1037	7	328	165	M14	14.3	7.0	Cotter pin	40	n/a	5,400
	6312-1075	8	310	150	M12	16.1	8.0	Ring	50	n/a	4,000
	6312-1038	8	386	190	M16	16.1	8.0	Cotter pin	25	n/a	6,500
	6312-1039	10	422	210	M20	17.8	10.0	Cotter pin	15	n/a	8,500
	6312-1074	12	416	190	M16	17.8	10.0	Cotter pin	12	n/a	6,500
	6312-1053	3/32"	156	80	M5	5.5	3/32"	Ring	600	n/a	600
	6312-1002	1/8"	180	90	M6	6.3	1/8"	Ring	250	n/a	1,000
	6312-1029	5/32"	191	90	M6	7.5	5/32"	Ring	200	n/a	1,000
	6312-1004	5/32"	211	105	M8	7.5	5/32"	Ring	150	n/a	1,400
	6312-1003	3/16"	216	105	M8	9.1	3/16"	Ring	150	n/a	1,400
1	6312-1030	3/16"	244	125	M10	9.1	3/16"	Ring	100	n/a	2,200
	6312-1001	1/4"	260	125	M10	12.5	1/4"	Ring	75	n/a	2,200
	6312-1032	1/4"	308	150	M12	12.5	1/4"	Ring	50	n/a	4,000
	6312-1031	5/16"	327	150	M12	16.1	5/16"	Ring	50	n/a	4,000

|--|

S312P/4

Technical Data Casting material Forging material Production : AISI316 - DIN 1.4408 : AISI316 - DIN 1.4401 : S31 2P/4 - Jaw - Forged

Swageless terminal- Cast Accessory- See chart Surface treatment: "M.F." (Matte finished)

Field of application
Pipe turnbuckles, jaw and swageless terminal are designed for tightening of one loose end to a wire rope. The wire rope is assembled without a swaging machine.

itemno. Material	S312P/4 SS316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	Accessory	***	B.L. ⁽¹⁾ (kgs)
	6312-4108	4	220	105	M8	Ring	160	500
	6312-4110	5	275	125	M10	Ring	80	900
	6312-4112	6	330	150	M12	Ring	60	1,900
	6312-4168	8	400	190	M16	Cotter pin	20	2,200
	6312-4116	10	425	190	M16	Cotter pin	15	3,300



S3125P/4

Casting material : AISI316 - DIN 1,4408 Production : S3125P/4 - Toggle - Cast Swageless terminal - Cast Accessory - See chart
Surface treatment : "M.F." (Matte finished)

Field of application

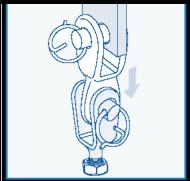
Pipe turn buckles, toggle and swageless terminal are designed for tightening of one loose end to a wire rope. The wire rope is assembled without a swaging machine.

Note: 13 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 5 load characteristics

itemno. Material	S3125P/4 SS316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	Accessory	13	B.L. ^{[1)} (kgs)
	6312-5408	4	230	105	M8	Ring	150	500
	6312-5410	5	285	125	M10	Ring	80	900
	6312-5412	6	335	150	M12	Ring	50	1,900
	6312-5417	8	415	190	M16	Cotter pin	20	2,200
	6312-5416	10	440	190	M16	Cotter pin	20	3,300







S3400

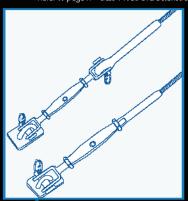
Technical Data

Casting material : AISI316 - DIN 1.4408
Forging material : AISI316 - DIN 1.4401
Production : S3400 - Toggle - Cast
Pin - See chart
Surface trestment : "E.R." (Electro polished)

Field of application
Turnbuckle toggles are designed to be inserted into jaw of any corresponding size of turnbuckle for 180 degrees movement.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 1 load characteristics





SF312P/MIN

Technical Data Forging material : AISI316 - DIN 1.4401
Production : SF312P/MIN - Jaw - Forged
Surface treatment : "M.F." (Matte finished)

Field of application

Mini pipe turnbuckles, jaw and jaw are specially designed to be used in interior where space is minimum. The extra short and slim pipe makes it aesthetically different from standards turnbuckles.

Not e: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 3 load characteristics



SF3121P/MIN

Technical Data

Forging material : AISI316 - DIN 1.4401
Production : SF3121P/MIN - Jaw - Forged
Terminal - Forged
Surface treatment : "M.F." (Watte finished)

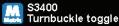
Field of application

Mini pipe turnbuckles, jaw and swage terminal are specially designed to be used in interior where space is minimum. The extra short and slim pipe makes it aesthetically different from standard sturnbuckles. The swage end must use a swaging machine for proper swaging of wire.

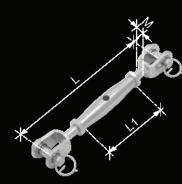
Note: (3) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 5 load dharacteristics

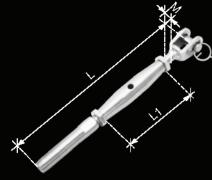




item no. Material	\$3400 \$8316	SIZE (mm)	ØA (mm)	B (mm)	ØC (mm)	L (m m)	Pin	\$	P B C	B.L. ⁽¹⁾ (kgs)
	6340-0005	5	5	5.5	5.3	35	Forged	1,800	1	1,000
	6340-0006	6	6	6.5	6.8	41	Forged	1,000	1	1,250
	6340-0008	8	8	9.0	8.5	49	Forged	600	2	1,700
	6340-0010	10	9	11.0	10.0	58	Forged	350	n/a	3,100
	6340-0012	12	12	12.0	13.2	78	Forged	150	n/a	4,650
	6340-0014	14	14	13.0	15.0	92	Forged	100	n/a	5,750
	6340-0016	16	16	15.0	16.5	116	Forged	80	n/a	8,150
	6340-0020	20	16	20.0	16.5	158	Cast	30	n/a	9,400







SF3121P/MIN Mini pipe tumbuckle, jaw and swage terminal

temno. Vaterial	SF312P/MIN SS316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	13	P B C	B.L. ^{[1)} (kgs)
	6312-0804	4	84	40	M4	1,500	3	500
	6312-0805	5	95	50	M5	700	3	750
	6312-0806	6	110	60	M6	300	3	1,400
	6312-0808	8	122	60	8M	200	n/a	2,200
	6312-0810	10	164	80	M10	125	n/a	3,450

item no. Material	SF3121P/MIN SS316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	**	P B C	B.L. ⁽¹⁾ (kgs)
	6312-1020	5	107	50	M5	800	4	750
	6312-1021	6	133	60	M6	450	4	1,250
	6312-1022	8	147	60	M8	300	n/a	2,200
	6312-1019	10	191	80	M10	100	n/a	3.450





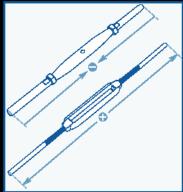




Plastic Back Card.









Technical Data Technical Data
Forging material : AISI316 - DIN 1.4401
Production : SF3122P/MIN - Pipe - Forged
Terminal - Forged
Surface treatment : "M.F." (Watte finished)

Field of application

Mini pipe turnbuckles, swage terminal and swage terminal are specially designed to be used in interior where space is minimum. The extra short and slim pipe makes it aesthetically different from standards turnbuckles. The swage end must use a swaging machine for proper swaging of wire.



SF3122P

Technical Data

: AISI316 - DIN 1.4401 : SF3122P - Terminal - Forged Forging material Production Surface treatment: "M.F." (Matte finished)

Field of application

Pipe turnbuckles, swage terminal are specially designed for application where two loose end of wire are encountered. Both ends must be properly swaged using a swaging machine.



SF3122PK

Technical Data Forging material AISI316 - DIN 1.4401 Production : SF3122PK - Stud - Forged Surface treatment : "M.F." (Matte finished)

Field of application
Pipe tumbuckles, stud and stud are specially designed for application where two loose holes are encountered. Both ends must be properly welded to the loose holes.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 6 load characteristics



S311K Technical Data

Formical Data
Casting material : AISI316-DIN 1.4408
Forging material : AISI316-DIN 1.4401
Production : S311K-Frame - Cast
Stud - Forged
Surface treatment : "E.R." (Electro polished)

Frame turnbuckles, stud and stud are specially designed for an application where the two loose holes are encountered. Both ends must be properly welded to the loose holes.

Note: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page 44 - dass 21 load characteristics





SF3122P/MIN Mini pipe turnbuckle, swage terminal and swage terminal

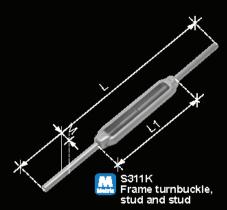
SF3122P Pipe turnbuckle, swage terminal

SF3122PK Pipe turnbuckle, stud and stud

itemno.	SF3122P/MI	N SIZE	L	L1	M	Dia Ø Cable	**	B.L. ⁽¹⁾
Material	55316	(mm)	(mm)	(mm)	(thread)	(mm)		(kgs)
	6312-2105	5	121	50	M5	3	800	1,000
	6312-2106	6	1 <i>5</i> 6	60	M6	4	350	1,250
	6312-2108 6312-2110	8 10	168 220	60 80	M8 M10	5	250 125	1,250 2,350
itemno.	SF3122P	SIZE	L	L1	M	Dia Ø Cable		B.L. ⁽¹⁾
Material	55316	(mm/inch)	(mm)	(mm)	(thread)	(mm)		(kgs)
	6312-2005	5	180	80	M5	2.5	700	600
	6312-2006	6	200	90	M6	3.0	3 <i>5</i> 0	1,000

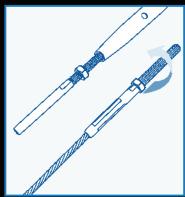
faterial	55316	(mm/inch)	(mm)	(mm)	(thread)	(mm)		(kgs)
	6312-2005	5	180	80	M5	2.5	700	600
	6312-2006	6	200	90	M6	3.0	350	1,000
	6312-2008	8	240	105	M8	4.0	250	1,400
	6312-2010	10	275	125	M10	5.0	120	2,200
	6312-2012	12	335	150	M12	6.0	60	4,000
	6312-2014	14	365	165	M14	7.0	40	5,400
	6312-2016	16	435	190	M16	8.0	20	6,500
	6312-2480	20	480	210	M20"	10.0	20	8,500
	6312-2181	1/8"	200	90	1/4"	1/8"	350	1,000
	6312-2315	3/16"	248	105	5/16"	3/16"	200	1,400
	6312-2143	1/4"	308	125	3/8"	1/4"	75	2,200
	6312-2511	5/16"	366	150	1/2"	5/16"	40	4,500
	6312-2385	3/8"	431	190	5/8"	3/8"	30	6,500
	6312-2213	1/2"	534	210	3/4"	1/2"	15	8, <i>5</i> 00

itemno. Ntaterial	SF3122PK 55316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	7	B.L. ⁽¹⁾ (kgs)
	6312-2206	6	200	90	M6	250	1,400
	6312-2208	8	225	105	M8	250	2,200
	6312-2210	10	255	125	M10	100	3,450
	6312-2212	12	280	150	M12	60	5,000
	6312-2214	14	300	165	M14	n/a	6,400
	6312-2216	16	340	190	M16	35	8,000
	6312-2220	20	370	210	M20	20	10,500



itemno. Material	S311K 55316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	P	B.L. ^[2] (kgs)
	6311-6605	5	160	70	M5	500	750
	6311-6606	6	200	90	M6	250	1,400
	6311-6608	8	240	120	M8	150	2,200
	6311-6410	10	280	150	M10	100	3,450
	6311-6412	12	330	200	M12	50	5,000
	6311-6414	14	310	170	M14	20	6,400
	6311-6516	16	410	250	M16	20	8,000
	6311-6520	20	500	300	M20	15	10,500







SF7801L

Technical Data
Forging material : AISI316 - DIN 1.4401
Production : SF7801L - Stud - Forged
Surface treatment : "M.F." (Matte finished)

Field of application

Left threaded stud terminals are designed for loose wire rope ends. Terminals must be properly swaged with swaging machine.









SF7801 Right threaded stud terminal

m no. sterial	SF7801L	SIZE	Dia Ø Cable	, L ,	L1	L2	M	OD	T 3	PB	
	SS316	(mm/inch)	(mm)	(mm)	(m m)	(mm)	(thread)	(m m)			
	6780-1032	2.5*M5	2.5	86	35	40	M5	5.5	2,000	2	
	6780-1033	3.0*M6	3.0	97	38	48	M6	6.3	1,000	2	
	6780-1034	4.0*M8	4.0	115	45	54	M8	7.5	750	3	
	6780-1035	5.0*M10	5.0	128	52	61	M10	9.1	300	3	
	6780-1036	6.0*M12	6.0	162	63	79	M12	12.5	150	n/a	
	6780-1189	7.0*M14	7.0	178	70	90	M14	14.3	150	n/a	
	6780-1812	8.0*M12	8.0	175	80	76	M12	16.1	150	n/a	
	6780-1037	8.0*M16	8.0	214	80	102	M16	16.1	100	n/a	
	6780-1813	10*M20	10.0	225	100	105	M20	17.8	60	n/a	
	6780-1814	12*M20	12.0	284	144	120	M20	21.4	50	n/a	
	6780-1815	14*M22	14.0	328	168	140	M22	25.0	n/a	n/a	
	2780-1994	16*M24	16.0	387	192	170	M24	28.1	25	n/a	
	6780-1111	1/8"*M5	1/8"	85	38	35	M5	6.3	1,500	n/a	
	6780-1160	1/8"*M5	1/8"	90	38	40	M5	6.3	1,500	n/a	
	6780-1107	1/8"*M6	1/8"	90	38	40	M6	6.3	1,400	n/a	
	6780-1161	1/8"*1/4"UNC	1/8"	97	37	48	1/4"UNC	6.3	1,200	n/a	
	6780-1108	5/32"*M6	5/32"	106	45	48	M6	7.5	750	n/a	
	6780-1109	5/32"*M8	5/32"	118	45	60	M8	7.5	750	n/a	
	6780-1162	5/32"*1/4"UNG	5/32"	108	48	48	1/4"UNC	7.5	1,200	n/a	
	6780-1163	5/32"*5/16"UN		116	48	56	5/16"UNC	7.5	900	n/a	
	6780-1110	3/16"*M8	3/16"	124	51	60	M8	9.1	500	n/a	
	6780-1258	3/16"*1/4"UNG	3/16"	113	53	48	1/4"UNC	9.1	600	n/a	
	6780-1164	3/16"*5/16"UN		121	53	56	5/16"UNC	9.1	600	n/a	
	6780-1165	3/16"*3/8"UNG		132	53	67	3/8"UNC	9.1	500	n/a	
	6780-1265	1/4"*5/16"UNC		137	65	56	5/16"UNC	12.5	175	n/a	
	6780-1166	1/4"*3/8"UNC	1/4"	148	65	67	3/8"UNC	12.5	300	n/a	
	6780-1133	5/16"*M16	5/16"	175	80	76	M16	16.1	80	n/a	
	6780-1168	5/16"*1/2"UNG		182	83	81	1/2"UNC	16.1	150	n/a	
	6780-1169	3/8"*5/8"UNC	3/8"	215	90	105	5/8"UNC	17.8	90	n/a	



SF7801

Technical Data
Forging material : AISI316 - DIN 1.4401
Production : SF7801 - Stud - Forged
Surface treatment : "M.F." (Matte finished)

Field of application
Right threaded stud terminals are designed for loose wire rope ends. Terminals must be properly swaged with swaging machine.

Note:(1) See Note: D14

Standard $^{\rm o}$

item no. Material	SF7801 SS316	SIZE (mm/inch)	Dia Ø Cable (mm)	L (mm)	L1 (mm)	L2 (mm)	M (thread)	OD (mm)	13	P B C
	6780-1268	2*M5	2	86	32	40	M5	5.5	2,500	n/a
	6780-1012	2.5*M5	2.5	86	35	40	M5	5.5	2,000	1
	6780-1068	3*M5	3	80	32	40	M5	6.3	1,400	n/a
	6780-1020	3*M6	3	97	38	48	M6	6.3	1,200	2
	6780-1050	4*M6	4	110	45	48	M6	7.5	750	n/a
	6780-1021	4*M8	4	115	45	54	M8	7.5	750	3
	6780-1095	5*M8	5	128	51	57	M8	9.1	450	n/a
	6780-1026	5*M10	5	128	52	61	M10	9.1	300	n/a
	6780-1028	6*M12	6	162	63	79	M12	12.5	150	n/a
	2780-1170	7*M12	7	168	70	80	M12	14.3	150	n/a
	6780-1029	7*M14	7	178	70	90	M14	14.3	150	n/a
	6780-1056	8*M12	8	175	80	76	M12	16.1	150	n/a
	2780-1171	8*M14	8	190	80	90	M14	16.1	100	n/a
	6780-1030	8*M16	8	214	80	102	M16	16.1	100	n/a
	6780-1816	10*M20	10	225	100	105	M16	17.8	75	n/a
	6780-1014	10*M20	10	225	100	105	M20	17.8	60	n/a
	6780-1566	12*M20	12	278	144	116	M20	21.4	50	n/a
	6780-1818	12*M20	12	284	144	120	M20	21.4	50	n/a
	6780-1819	14*M22	14	328	168	140	M22	25.0	25	n/a
	2780-1993	16*M24	16	387	192	170	M24	28.1	25	n/a
	6780-1104	3/32"*M5	3/32"	80	32	40	M5	5.5	2,500	n/a
	6780-1188	1/8"*M5	1/8"	90	37	41	M5	6.3	1,500	n/a
	6780-1155	1/8"*M6	1/8"	97	37	48	M6	6.3	1,400	n/a











SF7801 Right threaded stud terminal

(Continue from previous page)



Note D14:

"Stan dard terminals are the comon sizes used in assembly with other products such as turnbuckles."

"Non-standard terminals are sizes which are rarely used in common settings or product assemblies."

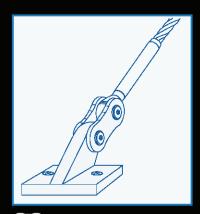
Standard⁽¹⁾

item no. Material	SF7801 SS316	SIZE (inch)	Dia Ø Cable (inch)	L (mm)	L1 (m m)	L2 (mm)	(thread)	OD (mm)	€
	6780-1144	5/32"*M6	5/32"	108	48	48	M6	7.5	750
	6780-1152	5/32"*M8	5/32"	116	48	56	M8	7.5	750
	6780-1153	3/16"*M10	3/16"	132	53	67	M10	9.1	300
	6780-1154	1/4"*M10	1/4"	148	65	67	M10	12.5	180
	6780-1180	1/4"*M12	1/4"	162	65	81	M12	12.5	170
	6780-1219	5/16"*M12	5/16"	182	83	81	M12	16.1	150

Non Standard "

-	standard								
enno.	SF7801	SIZE	Dia Ø Cable	L	L1	L2	M	OD	4
laterial	SS316	(mm/inch)	(mm/inch)	(m m)	(m m)	(mm)	(thread)	(mm)	
	6780-1060	2*M5	2.0	72	21	40	M5	5.5	2,500
	6780-1047	2*M6	2.0	83	32	40	M6	5.5	1,400
	6780-1089	2.5*M6	2.5	85	32	42	M6	5.5	1,400
	6780-1285	3*M5	3.0	90	37	41	M5	6.3	1,400
	6780-1001	3*M6	3.0	86	35	41	M6	6.3	1,200
	6780-1069	4*M6	4.0	95	40	44	M6	7.5	750
	6780-1061	4*M6	4.0	117	45	57 57	M6	7.5	750
	6780-1076 6780-1181	4*M8 4*M8	4.0 4.0	115 118	45 45	57 57	M8 M8	7.5 7.5	750 500
	6780-1181	4^M8	4.0 5.0	122	45 51	57 58	1418 814	7.3 9.1	400
	6780-1123	5*M8	5.0	120	57	52	M8	9.1	500
	6780-1071	6*M10	6.0	135	63	63	M10	12.5	250
	6780-1054	6*M10	6.0	145	64	63	M10	12.5	250
	6780-1134	6*M10	6.0	162	64	80	M10	12.5	150
	6780-1052	6*M12	6.0	155	63	80	M12	12.5	170
	6780-1172	6*M12	6.0	162	64	80	M12	12.5	150
	6780-1055	7*M12	7.0	178	70	81	M12	14.3	150
	6780-1211	16*M24	16.0	387	192	170	M24	28.1	25
	6780-1270	20*M27	20.0	465	240	180	M27	34.5	n/a
	6780-1019	3/32"*M6	3/32"	70	32	30	M6	5.5	2,000
	6780-1064	3/32"*3/16"	3/32"	70	32	30	3/16"	5.5	1,500
	6780-1112	3/32"*3/16"	3/32"	86	35	40	3/16"	5.5	2,500
	6780-1113	3/32"*1/4"UNG		97	37	48	1/4"UNC	5.5	2,500
	6780-1008	1/8"*M5	1/8"	85	38	35	M5	6.3	1,500
	6780-1073	1/8"*M5	1/8"	90	38	40	M5	6.3	1,500
	6780-1007	1/8"*M6	1/8"	90	38	40	M6	6.3	1,400
	6780-1179	1/8"*M6	1/8"	100	38	50	M6	6.3	1,400
	6780-1193	1/8"*3/16"	1/8"	85	35	40	3/16"	6.3	1,400
	6780-1067	1/8"*3/16" 1/8"*1/4"UNC	1/8" 1/8"	90 07	38 37	40	3/16"	6.3	1,400
	6780-1114 6780-1009	1/8 * 1/4 ONC 1/8"*1/4""	1/8"	97 100	37 38	48 50	1/4"UNC 1/4""	6.3 6.3	1,200 1,200
	6780-1009	5/32"*M6	5/32"	106	36 45	48	M6	7.5	750
	6780-1024	5/32"*M8	5/32"	108	45	50	M8	7.5	750
	6780-1532	5/32"*M8	5/32"	115	45	57	M8	7.5	750
	6780-1177	5/32"*M8	5/32"	118	45	60	M8	7.5	750
	6780-1025	5/32"*1/4"UNG		108	45	50	1/4"UNC	7.5	1,000
	6780-1115	5/32"*1/4"UNG	5/32"	108	48	48	1/4"UNC	7.5	1,200
	6780-1116	5/32"*5/16"UN	C 5/32"	116	48	56	5/16"UNC	7.5	900
	6780-1135	3/16"*M8	3/16"	116	51	52	M8	9.1	700
	6780-1017	3/16"*M8	3/16"	124	51	60	M8	9.1	600
	6780-1102	3/16"*M10	3/16"	127	51	63	M10	9.1	300
	6780-1159	3/16"*1/4"UNG		113	53	48	1/4"UNC	9.1	600
	6780-1065	3/16"*5/16"	3/16"	116	51	52	5/16"	9.1	450
	6780-1117	3/16"*5/16"UN		121	53	56	5/16"UNC	9.1	600
	6780-1198	3/16"*5/16"	3/16"	128	57	60	5/16"	9.1	450
	6780-1118	3/16"*3/8"UNG 7/32"*3/8"UNG		132 137	53 57.5	67 67	3/8"UNC 3/8"UNC	9.1 10.8	500 300
	6780-1157 6780-1136	7/52 ^5/8 UNC 1/4"*M10	1/4"	157	57.5 64	67 80	3/8 UNC M10	12.5	300 180
	6780-1136	1/4"*M10	1/4"	162	64	85	M10	12.5	200
	6780-1410	1/4"*M10	1/4"	182	64	105	M10	12.5	180
	6780-1003	1/4"*M12	1/4"	182	64	105	M12	12.5	175
	6780-1264	1/4"*5/16"UNG		137	65	56	5/16"UNC	12.5	180
	6780-1119	1/4"*3/8"UNC		148	65	67	3/8"UNC	12.5	300
	6780-1201	1/4"*3/8"	1/4"	153	63	80	3/8"	12.5	n/a
	6780-1206	1/4"*3/8"	1/4"	157	64	80	3/8"	12.5	250
	6780-1158	1/4"*1/2"UNC		162	65	81	1/2"UNC	12.5	170
	6780-1005	1/4"*1/2"	1/4"	187	64	110	1/2"	12.5	200
	6780-1124	5/16"*M16	5/16"	175	80	76	M16	16.1	80
	6780-1121	5/16"*1/2"UNG	5/16"	182	83	81	1/2"UNC	16.1	150





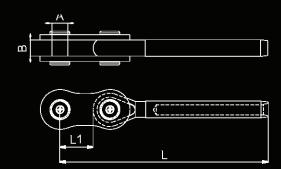


Technical Data

Technical DataForging material : AISI316 - DIN 1.4401
Production : SF7805/CH - Toggle - Sheet
Terminal - Bar

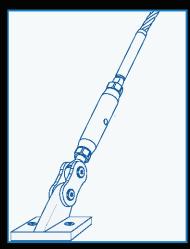
Surface treatment : "M.F." (Matte finished)

Field of application
Swage toggles provide the flexibility of a toggle
connection with the full swage strength of swaged
terminal. Swage toggles are designed to be used
where no adjustment are needed.



SF7805/CH Swage toggle (countersunk head pin)

			- III-Ş- 10	99 (<u> </u>	
emno. lateria l	SF7805/CH SS316	SIZE (mm)	ØA (mm)	B (mm)	L (mm)	L1 (mm)	Dia Ø Cable (mm)	B.L. ⁽¹⁾ (kgs)
	2780-5314	14	24	24	313	75	14	18,500
	2780-5316	16	27	27	352	85	16	24,000
	2780-5319	19	30	30	413	95	19	29,000
	2780-5320	20	30	30	425	95	20	29,000
	2780-5322	22	33	33	462	105	22	36,000
	2780-5324	24	36	36	504	115	24	42,000
	2780-5326	26	39	39	546	125	26	51,000
	2780-5328	28	42	42	588	135	28	58,000
	2780-5330	30	45	45	630	145	30	68,000
	2780-5332	32	48	48	672	155	32	77,000
	2780-5334	34	52	52	714	165	34	92,000
	2780-5336	36	56	56	756	175	36	106,000





S3121/5CH

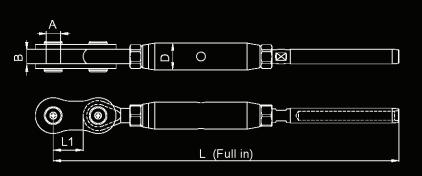
Technical Data

Casting material : AISI316 - DIN 1.4408 Forging material : AISI316 - DIN 1.4401 : \$3121/5CH - Turebuckle - Pipe/ Bar Toggle - Sheet Terminal - Bar Eye - Bar Pin - Bar Surface treatment : "M.F." (Matte finished)

Field of application
Turnbuckle toggles & Swage terminals are heavy duty class turnbuckles of the Sinox basic range.
They provide a solid tensioning platform for cables from 14mm to 36mm with build in 4 times cable effect additionable. size adjustment.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 5 load characteristics



S3121/5CH Turnbuckle toggle (countersunk head pin) & Swage terminal

Material		ilZE nm) (ØA mm)	B (mm)	Ø D (mm)	in -	L out +	L1 (mm)	Dia Ø Cable (mm)	B.L. ⁽¹⁾ (kgs)
631	2-1609 14 ⁹	*M24	24	24	45.0	578	690	75	14	18,500
631	2-1610 16 ⁹	*M27	27	27	50.8	657	785	85	16	24,000
631	2-1611 19 ⁹	*M30	30	30	54.0	758	910	95	19	29,000
631	2-1612 20 ⁴	*M30	30	30	54.0	770	922	95	20	29,000
631	2-1613 22 ⁴	*М33	33	33	57.0	860	1,036	105	22	36,000
631	2-1614 24 ⁹	*М36	36	36	63.5	934	1,126	115	24	42,000
631	2-1615 26 ⁹	*M39	39	39	70.0	1,006	1,214	125	26	51,000
631	2-1621 28 ⁹	*M42	42	42	73.0	1,072	1,296	135	28	58,000
631	2-1617 30 ⁴	*M45	45	45	0.08	1,151	1,391	145	30	68,000
631	2-1618 32 ⁹	*M48	48	48	85.0	1,223	1,479	155	32	77,000
631	2-1619 34 ⁹	*M52	52	52	89.1	1,309	1,581	165	34	92,000
631	2-1620 36 ⁹	*M56	56	56	92.0	1,386	1,674	175	36	106,000







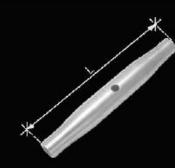
SF312PBD

Technical Data

Forging material : AISI316 - DIN 1,4401
Production : SF312FBD - Pipe - Forgad
Surfacetreatment : "M.F." (Matte finished)

Field of application

Turnbruckle pipes are designed for tightening of two mechanical threaded ends. Fittings can be separately ordered, but dimension of thread must be carefully observed.







SF312PBD
Turnbuckle pipe

SF312PLBD/MIN

6312-3504

6312-3505

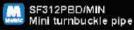
6312-3506 6312-3508

6312-3810

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SF312PLBD/MIN Long mini turnbuckle pipe

tarano.	SF312PBI) SIZE	i.	60	(50)	B.L. ¹⁰⁾
Distanted	58316	(mm/insh)	(mm)	(thread)		(kgs)
	6312-0905	M5	80	M5	1,500	750
	6312-0906	MG	90	M6	600	1,400
	6312-0908	M8	105	M8	500	2,400
	6312-0910	M10	125	M10	250	3,450
	6312-0912	M12	150	M12	150	5,000
	6312-0914	M14	165	PM 14	100	6,500
	6312-0916	M16	190	M16	80	8,500
	6312-0920	M20	210	M20	40	13,000
	2312-0925	M20*3.5	210	M20	n/a	12,800
	2312-0922	M22*4	270	M22	n/a	15,900
	6312-0928	M24	250	PA24	10	21,000
	6312-9104	1/4"UNC	90	1,44 "UNC	600	1,400
	6312-9165	5/16"UNC	105	5/16"UNC	400	2,400
	6312-0983	3/8"UNC	125	3/B*UNC	250	3,450
	6312-9201	1/2"UNC	150	1/2"UNC	150	5,000
	6312-0985	5/8"UNC	190	S/B"UNC	70	8,500
	6312-9403	3/4"UNC	210	3/4"UNC	40	13,000

SF312PBD/MIN	SIZE (mm)	L (mm)	M (thread)	***	B.L. ⁽¹⁾ (kgs)
6312-3004	4	40	104	3,500	360
6312-3005	5	50	M5	3,000	750
6312-3006	6	60	M6	800	1,250
6312-3008	8	60	ME	1,000	2,200
6312-3010	10	80	M10	400	3,400

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120

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SF312PBD/MIN

Technical Data

Forging material : AISB 16 - DIN 1,4401 Production : SF312PBD/MIN - Pipe - Forged Surfacetreatment : "M.F." (Watte finished)

Field of application

Mini tumbuckle pipes are designed for tightening of two mechanical threaded ends with minimum space available. Fittings can be separately ordered, but dimension of thread and length of thread must be carefully observed.

SF312PLBD/MIN

Technical Data

Forging insterial : AISIS16 - DIN 1.4401 Production : SF312PLBC/MIN - Pipe - Forged Surface treatment : "M.F." (Matte finished)

Field of application

Long mini turnbudde pipes are designed for tightening of two mechanical threaded ends with extra slim profile. Fittings can be separately ordered but dimension of thread and length of thread must be carefully observed.

Not e:⁽¹⁾ Stan dard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 7 load characteristics





M

A#10

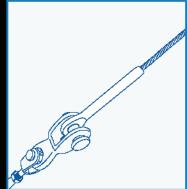
B.L.(11)

(kgs)

2,200

3,400











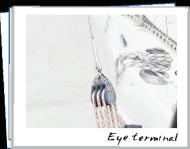




using a swaging machine.

Note: 11) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 4 load characteristics





SF78021/L, SF78021/R

Technical Data

: AISI316 - DIN 1.4401 : SF78021/L - Eye - Forged : SF78021/R - Eye - Forged Production Surface treatment: "E.P." (Electro polished)

Field of application

Threaded eyes are designed for assembly with the turnbuckles or the other fittings together. Selection of left hand or right hand thread must be carefully checked.



SF78021N/L, SF78021N/R

Technical Data

Perfinition Data
Forging material : AISI316 - DIN 1.4401
Production : SF78021N/L - Eye - Forged
: SF78021N/R - Eye - Forged
Surface treatment : "M.F." (Matte finished)

Field of application

Threaded eyes and nuts are designed to assembly with the turn buckles or the other fittings.

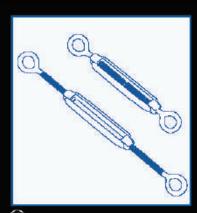
Note: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 8 load characteristics

item no.	SF7802	SIZE	øc	ØD	L	nie dicele	. 450		B.L. ⁽¹⁾
Material	SS316	(mm/inch)	(mm)	(mm)	(mm)	Dia Ø Cabl (mm)	•	P B C	(kgs)
E	6780-2202	2.0	5.5	5.53	56.0	2.0	2,500	2	850
Ē	6780-2225	2.5	5.5	5.53	56.0	2.5	2,500	2	850
E	6780-2203	3.0	6.5	6.35	62.0	3.0	2,000	2	1,000
F	6780-2204	4.0	8.5	7.54	77.0	4.0	1,200	2	1,350
E	6780-2205	5.0	10.5	9.12	87.0	5.0	500	3	2,500
F	6780-2306	6.0	13.0	12.54	107.5	6.0	300	n/a	4,500
F	6780-2208	8.0	14.5	16.13	133.0	8.0	125	n/a	6,700
F	6780-2210	10.0	16.3	17.85	159.5	10.0	100	n/a	7,800
F	6780-2212	12.0	19.3	21.44	180.0	12.0	70	n/a	9,000
F	6780-2733	3/32"	5.5	5.53	56.0	3/32"	2,500	n/a	850
F	6780-2718	1/8"	6.5	6.35	62.0	1/8"	2,000	n/a	1,000
F	6780-2753	5/32"	8.5	7.54	77.0	5/32"	800	n/a	1,350
F	6780-2731	3/16"	10.5	9.12	87.0	3/16"	500	n/a	2,500
E	6780-2714	1/4"	13.0	12.54	107.5	1/4"	300	n/a	4,500
E	6780-2561	5/16"	14.5	16.13	133.0	5/16"	125	n/a	6,700
E	6780-2381	3/8"	16.3	17.85	159.5	3/8"	100	n/a	7,800
[fem.no	6780-2712	1/2"	19.3	21.44	180.0	1/2"	70	n/a	9,000
Material	SF78021/L		øc	L		M Z	133	P B C	B.L. ⁽¹⁾
	SS316	(mm)	(mm)	(mm)		ead)	1200		(kgs)
E	6780-2256	M5	5.5	68.0			1,200	1	750
E	6780-2266	M6	6.5	68.0			1,500	2	1,000
B	6780-2288 6780-2201	M8 M10	8.5 10.8	86.5 102.0		48 10	500 400	3 3	2,200 3,000
F	6780-2201	M12	13.0	122.5		12	250	n/a	5,000
F	6780-2214	M14	13.0	138.0		14	200	n/a	6,100
F	6780-2216	M16	14.5	148.5		16	150	n/a	8,000
Ė	6780-2220	M20	19.5	185.0		20	70	n/a	11,000
item no.							~		
Material	SF78021/F		ØC	L (====)		M Z		P B C	B.L. ⁽²⁾
		(mm)	(mm)	(mm)		ead)	1 700		(kgs)
E	6780-2156	M5 M6	5.5	68.0 68.0			1,200 1,500	1	750 1,000
E	6780-2166 6780-2188	M8	6.5 8.5	86.5		16 18	500	2 3	2,200
	6780-2110	M10	10.8	102.0		10	400	3	3,000
Ē	6780-2112	M12	13.0	122.5		12	250	n/a	5,000
Ē	6780-2114	M14	13.0	138.0		14	200	n/a	6,100
Ē	6780-2116	M16	14.5	148.5		16	150	n/a	8,000
F	6780-2120	M20	19.5	185.0		20	70	n/a	11,000
item no.	SF78021N/	L SIZE	øc		L	M	7	70	B.L. ^{[2)}
Material	SS316	(mm)	(mm) (mm)	(thread	n d		(kgs)
F	6780-2157	M5	5.5		68.0	M5	,	n/a	750
F	6780-2161	M6	6.5		68.0	M6	1	,500	1,000
E	6780-2181	M8	8.5		86.5	M8		900	2,200
F	6780-2111	M10	10.8		02.0	M10		500	3,000
F	6782-1012	M12	13.0	1.	22.5	M12		n/a	5,000
F	6782-1014	M14	13.0	1.	38.0	M14		n/a	6,100
F	6782-1016	M16	14.5	1-	48.5	M16		n/a	8,000
F	6782-1020	M20	19.5	1	85.0	M20		n/a	11,000
	SF78021N/	R size	øc		L	M	4	-	B.L. ^[2]
Material	SS316	(mm)	(mm) (i	mm)	(thread	d)		(kgs)
E	6780-2150	M5	5.5		68.0	M5		2,500	750
E	6780-2160	M6	6.5		68.0	M6	1	,500	1,000
E	6780-2108	M8	8.5		86.5	M8		900	2,200
E	6780-2101	M10	10.8		02.0	M10		450	3,000
E	6780-2121	M12	13.0		22.5	M12		300	5,000
F	6782-1114	M14	13.0		38.0	M14		n/a	6,100
E	6782-1116	M16	14.5		48.5 95.0	M16		n/a	8,000
	6782-1120	M20	19.5		85.0	M20		n/a	11,000







BF311EL, BF311ER

Technical Data Forging material

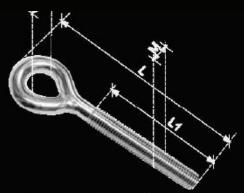
Forging material : AIS(304 - DIN 1.4301 AIS(316 - DIN 1.4301 Surface treatment : "EAP" (Electro polished)

Field of application

Left threaded eyes and right threaded eyes are designed to be used primarily with tumbuckles.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class Bload characteristics





BF311EL (Left threaded eye) BF311ER (Right threaded eye)

dem no. Visitari	BF311EL		SIZE	c	L	L1	nn nn	B.L. ^(II)
	55304	\$8316	(mm/inch)	(mm)	(mm)	(mm)	(thread)	(kgs)
	1931-1041	2931-1041	M4.0	8.5	52.0	33.5	PA4	475
	1937-1457	2931-1451	M4.5	8.5	48.0	27.0	MS	680
	1311-5504	2311-5503	M5.0	10.0	62.0	39.0	MS	680
	1311-5506	2311-5502	MG.0	12.0	77.0	50.0	M6	1,500
	1937-1187	2931-1182	M8.0	14.0	105.0	66.5	PM8	2,300
	1311-5509	2311-5509	M10.0	17.0	128.5	83.5	M10	3,100
	1311-5512	2311-5512	M12.0	20.0	160.0	110.0	W12	4,400
	1311-5516	2311-5516	M16.0	22.0	202.5	137.5	M16	8,100
	1311-2001	2311-2001	M20.0	28.0	232.0	147.0	M20	11,000
	1311-3161	2311-3161	3/16"	10.8	62.0	39.0	3/16*	650
	1311-4102	2311-4102	1/4"	12.0	77.0	50.0	1/4*	1,300
	1311-5122	2311-5122	5/16"	14.0	105.0	66.5	5/16*	2,100
	1311-5538	2311-5538	3/8"	17.0	128.5	83.5	3/8*	2,500
	1311-2213	2311-2213	1/2"	20.0	160.0	110.0	1/2*	4,500
	1311-5758	2311-5759	5/8"	22.0	202.5	137.5	5/8"	6,700
	1311-5534	2311-5533	3/4"	28.0	232.0	147.0	3/4*	10,500
	1311-2113	2311-2113	1/2"UNC	20.0	160.0	110.0	1/2*UNC	4,500

BF	311ER	SIZE	С	1	1.1	£/I	B.L. ⁽¹⁾
SS304	55316	(mm/inch)	(mm)	(mm)	(mm)	(thread)	(kgs)
1931-104	0 2931-1040	M4.0	8.5	52.0	33.5	1/44	475
1931-145	0 2931-1450	M4.5	8.5	48.0	27.0	MS	680
1931-120	5 2931-1206	M5.0	10.0	62.0	39.0	MS	680
1311-560	6 2311-5608	M6.0	12.0	77.0	50.0	M6	1,500
1937-120	8 2931-1209	M8.0	14.0	105.0	66.5	PAS	2,300
1311-560	9 2311-5601	M10.0	17.0	128.5	83.5	PA10	3,100
1311-561	2 2311-5611	M12.0	20.0	160.0	110.0	M12	4,400
1311-561	6 2311-5615	M16.0	22.0	202.5	137.5	M16	8,100
1311-201	7 2311-2011	M20.0	28.0	232.0	147.0	M20	11,000
1311-316	2 2311-3162	3/16"	10.0	62.0	39.0	3/16*	650
1311-411	2 2311-4113	1/4"	12.0	77.0	50.0	1/4*	1,300
1311-511	2 2311-5113	5/16"	14.0	105.0	66.5	5/16*	2,100
1311-563	8 2311-5638	3/8"	17.0	128.5	8.3.5	3/8*	7,500
1311-221	4 2311-2214	1/2"	20.8	160.0	110.0	1/2*	4,500
1311-565	8 2311-5659	5/8"	22.0	202,5	137.5	5/8*	6,700
1311-563	4 2311-5633	3/4"	28.0	232.0	147.0	3/4*	10,500
1311-211	4 2311-2114	1/2"UNC	20.0	160.0	110.0	1/2*UNC	4,500









BF311NEL, BF311NER

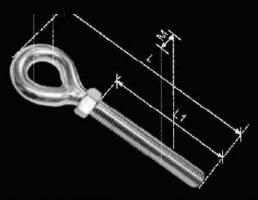
Technical Data

Forging material | AISI808 - DIM 1,4398 AISI316 - DIM 1,4401 Surfacettreatment : "E.P." (Electro poliched)

Field of application
Left threaded eyes and nuts and right threaded eyes and nuts are dealgned to be assembled with tumbuckles.

Notes(1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 8 load characteristics



BF311NEL (Left threaded eye and nut) BF311NER (Right threaded eye and nut)

	INEL	SIZE	c	L	L1	60	B.L. ⁽¹⁾
SS304	55316	(mm/inch)	(mm)	(mm)	(mm)	(thread)	(kgs)
1311-5543	2311-5543	M4.0	8.5	52.0	33.5	744	475
1311-5445	2311-5445	M4.5	8.5	48,0	27.0	MAS.	680
1311 5557	2311-5555	M5.0	10.0	62.0	39.0	MS	680
1311-5556	2311-5559	M6.0	12.0	77.0	50.0	146	1,500
1311-5558	2311-5554	M8.0	14.0	105.0	66,5	MS	2,300
1311-5410	2311-5410	M10.0	17.0	128.5	83.5	M10	3,100
1311-5412	2311-5412	M12.0	20.0	160.0	110.0	TA12	4,400
1311-5416	2311-5416	M16.0	22.0	202.5	137,5	M16	8,100
1311-5420	2311-5420	M20.0	28.0	232.0	147.0	M20	11,000
1311-5436	2311-5436	3/16"	18.0	62.0	39.0	3/16"	650
1311-5414	2311-5414	1/4"	12.0	77.0	50.0	1/4"	1,300
1311-5456	2311-5456	5/16"	14.0	105.0	66.5	5/16"	2,100
1311-5438	2311-5438	3/8"	17.0	128.5	83.5	3/B"	2,500
1311-5411	2311-5411	1/2"	20.0	160.0	110,0	1/2"	4,500
1311-5458	2311-5458	5/8"	22.0	202.5	137.5	5/B"	6,700
1311-5434	2311-5434	3/4"	28.0	232.0	147.0	3/4"	10,500
1311-5413	2311-5413	1/2"UNC	20.0	160.0	110.0	172"UNC	4,500

hemno esseral	BF31 \$5304	1NER 55316	SIZE (mm/inch)	C (mm)	L (mm)	L1 (mm)	M (thread)	B.L. ⁽¹⁾ (kgs)
1	931-1240	2931-1203	M4.0	8.5	52.0	33.5	144	475
	311-5545	2311-5545	M4.5	8.5	48.0	27.0	NAS	680
	311-5505	2931-1202	M5.0	10.0	62.0	39.0	M5	680
	311-5507	2311-5501	M6.0	12.0	77.0	50.0	146	1,500
	311-5508	2311-5908	M8.0	14.0	105.0	66.5	M8	7,300
	311-5511	2311-5513	M10.0	17.0	128.5	83.5	M10	3,100
	311-5514	2311-5514	M12.0	20.0	160.0	110.0	M12	4,400
	317-5518	2311-5518	M16.0	22.0	202.5	137.5	PA16	8,100
	311-5521	2311-5521	M20.0	28.0	232.0	147.0	M20	11,000
	311-5336	2311-5336	3/16"	10.0	62.0	39.0	3/16"	650
	311-5314	2311-5314	1/4"	12.0	77.0	50.0	1/4"	1,300
	311-5356	2311-5356	5/16"	14.0	105.0	66.5	5/16"	2,100
	311-5338	2311-5336	3/6"	17.0	128.5	83.5	3/B"	2,500
	311-5317	2311-5311	1/2"	20.0	160.0	110.0	1/2"	4,500
	311-5358	2311-5358	5/8"	22.0	202.5	137.5	S/B"	6,700
	311-5334	2311-5334	3/4"	28.0	232.0	147.0	3/4"	10,500
	311-5313	2311-5313	1/2"UNC	20.0	160.0	110.0	1/2"UNC	4,500





Terminals & Turnbuckles







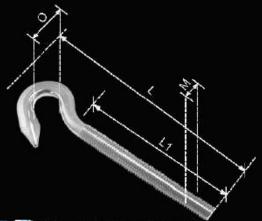
Technical Data
Forging menerial : AIS 304 - DIN 1/4301
AIS 316 - DIN 1/4301
Surface treatment : "E.P." (Electro polished)

Field of application

Left threaded hooks and Right threaded hooks are designed to be used primarily with turnbuckles.

Note:⁽¹⁾ Standard safety factor for working load is 1.4 of breaking load.

Refer to page IV dess⊞ load characteristics



BF311HL (Left threaded hook) BF311HR (Right threaded hook)

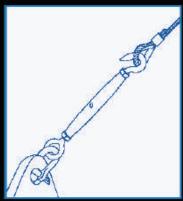
Herrito BF	311HL	SIZE	SE	L1	M	0	B.L.
55304	55316	(mm/inch)	(mm)	(mm)	(thread)	(mm)	(kg)
1931-1044	2931-1044	M4.0	50.5	33.5	NI4	5.5	1.0
1931-1454	2931-1454	M4.5	48:0	27.0	MIS.	6.3	13
1937-1213	2931-1215	M5.0	62.0	39.0	M5	5.5	13
1931-1216	2931-1216	M6.0	83.0	50.0	Mis	6.5	35
1311-5708	2311-5708	M8.0	104.5	66.5	MIS	8.0	65
1311-5709	2311-5709	M10.0	131.5	83.5	M10	11.2	80
1311-5712	2311-5712	M12.0	165.0	110.0	M172	14.0	1,40
1311-5716	2311-5716	M16.0	202.5	137.5	M16	17.0	2,40
1317-2012	2311-2012	M20.0	222.0	147.0	M20	22.0	3,50
1311-3163	2311-3163	3/16"	62.0	39.0	3/16*	5.5	13
1931-1104	2931-1103	1/4"	83.0	50.0	1/4*	6.5	35
1931-1523	2931-1526	5/16"	104.5	66.5	5/16*	8.0	65
1311-5738	2311-5738	3/8"	131.5	83.5	3/8"	11.2	80
1311-2213	2311-2215	1/2"	165.0	110.0	1/2*	14.0	1,40
1311-5801	2311-5801	5/8"	202.5	137.5	5/8*	17.0	2,40
1377-3401	2311-3401	3/4"	222.0	147.0	3/4"	22.0	3,50
1311-2115	2311-2117	1/2"UNC	165.0	110.0	1/2*UNC	14.0	1.40

lemno B	8F311HR	SIZE	L	L1	M	0	B.L.
Vision) SS30		(mm/inch)	(mm)	(mm)	(thread)	(mm)	(kg)
1937-1	043 2931-104	43 M4 .0	50.5	33.5	N/4	5.5	10
1937-1	453 2931-145	53 M4.5	48.0	27.0	M5	6.3	13
1931-1.	225 2931-123	24 M5.0	62.0	39.0	MS	5.5	13
1931-1.	226 2931-12	27 M6.0	83.0	50.0	Mi6	6.5	35
1311-5	808 2311-580	05 MB.0	104.5	66.5	WIS	8.0	65
1311-5	809 2311-560	09 M10.0	131.5	83.5	M10	11.2	80
1311-5	812 2311-58	12 M12.0	165.0	110.0	M112	14.0	1,40
1317-5	816 2311-58	16 M16.0	202.5	137.5	M16	17.0	2,40
1311-2	013 2311-20	13 M20.0	222.0	147.0	M20	22.0	3,50
1311-3	164 2311-310	64 3/16"	62.0	39.0	3/16"	5.5	13
1931-1	201 2931-120	01 1/4"	83.0	50.0	1/4"	6.5	35
1931-1.	507 2931-150	06 5/16"	104.5	66.5	5/16"	8.0	65
1311-5	838 2311-58	38 3/8"	131.5	83.5	3/8"	11.2	88
1311-2	216 2311-22		165.0	110.0	1/2*	14.0	1,40
1311-5	802 2311-56	02 5/8"	202.5	137.5	5/8*	17.0	2,40
1311-3	402 2311-340	02 3/4"	222.0	147.0	3/4"	22.0	3,50
1311-2	116 2311-21		165.0	110.0	1/2*UNC	14.0	1.40



Terminals & Turnbuckles







BF311N/HL, BF311N/HR

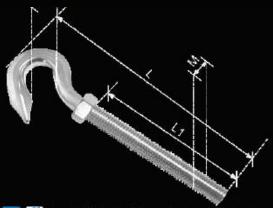
Technical Data

Forging meterial AIS304 - DIN 1 4301 AIS316 - DIN 1 4401 Surface treatment : "EAP" Electro polishedi

Field of application Left threaded hooks and nuts and right threaded hooks and nuts are designed to be assembled with turnbuckles.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV class 8 load characteristics



BF311N/HL (Left threaded hook and nut) BF311N/HR (Right threaded hook and nut)

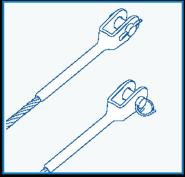
BF311N/HL sss304 SS316		1N/HL	SIZE	L	LI	M	0	BT' _D)
Maeria	SS304	SS316	(mm/inch)	(mm)	(mm)	(thread)	(mm)	(kgs)
1	311-5641	2311-5641	M4.0	50.5	33.5	PA4	5.5	100
1	311-5646	2311-5646	M4.5	48.0	27.0	MS	6.3	130
1	371-5655	2311-5656	M5.0	62.0	39.0	M5	5.5	130
7	311-5665	2311-5665	M6.0	83.0	50.0	M6	6.5	350
1	311-5604	2311-5704	M8.0	104.5	66.5	148	8.0	650
7	371-5610	2311-5610	M10.0	131.5	83.5	PATO	11.2	800
1	371-5613	2311-5613	M12.0	165.0	110.0	M12	14.0	1,400
1	311-5617	2311-5617	M16.0	202.5	137.5	M16	17.0	2,400
1	371-5620	2311-5620	M20.0	222.0	147.0	M20	22.0	3,500
1	311-1317	2311-1317	3/16"	62.0	39.0	3/16*	5.5	130
1	3/1-15/3	2311-1513	1/4"	83,0	50.0	1/4*	5.5	350
7	371-1575	2311-1515	5/16"	104.5	66.5	5/16*	8.0	650
1	311-5537	2311-5537	3/8"	131.5	83.5	3/8*	11.2	800
1	311-1211	2311-1211	1/2"	165.0	110.0	1/2*	14.0	1,400
1	371-5657	2311-5657	5/8"	202.5	137.5	5/8"	17.0	2,400
1	311-5535	2311-5535	3/4"	222.0	147.0	3/4*	22.0	3,500
1	311-5103	2311-5103	1/2"UNC	165.0	110.0	1/2*UNC	14.0	1.400

Hem no.	BF311	1N/HR	SIZE	E	L1	M	0	B.L. ⁽¹⁾
Missist	55304	55316	(mm/inch)	(mm)	(mm)	(thread)	(mm)	(kgs)
1	311-5640	2311-5640	M4.0	50.5	33,5	144	5.5	100
1	311-5645	2311-5645	M4.5	48.0	27.0	145	6.3	130
1	311-5605	2311-5603	M5.0	62.0	39.0	MS	5.5	130
1	311-5607	2311-5602	M6.0	83.0	50.0	146	6.5	350
1	311-1503	2311-1504	M8.0	104.5	66.5	PM8	8.0	650
7	311-1510	2311-1510	M10.0	131,5	83.5	M10	11.2	800
1	311-1512	2311-1512	M12.0	165.0	110.0	M12	14.0	1,400
7.	311-1517	2311-1517	M16.0	202.5	137.5	M16	17.0	2,400
1	311-1520	2311-1520	M20.0	222.0	147.0	M20	22,0	3,500
1	311-1316	2311-1316	3/16"	83.0	39.0	3/16*	5.5	130
7	311-1514	2311-1514	1/4"	B3.0	50,0	1/4*	6.5	350
1	311-1516	2311-1516	5/16"	104.5	66.5	5/16*	8.0	650
1	371-1538	2311-1538	3/8"	131.5	83.5	3/8*	11.2	800
7	311-1212	2311-1212	1/2"	165.0	110.0	1/2*	14.0	1,400
1	311-1558	2311-1558	5/8"	202.5	137.5	5/8*	17.0	2,400
1	311-1534	2311-1534	3/4"	222.0	147.0	3/4*	22.0	3,500
7	311-5102	2311-5102	1/2"UNC	165.0	110.0	1/2*UNC	14.0	1,400





Terminals & Turnbuckles OP





SF7803

Technical Data

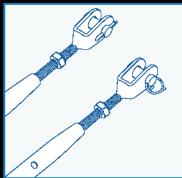
Forging material : AISI316 - DIN 1.4401 Production : SF7803 - Jaw - Cast : SF7803 - Jaw - Cast Pin - Forged

Accessory - See chart
Surface treatment : "E.P." (Electro polished)

Field of application

Swage forks are designed for swaging of a loose end wire rope. Wire must be properly swaged by using a swaging machine.







BF312P/JL, BF312P/JR

Technical Data

Fechnical Data
Forging material : AISI316 - DIN 1 4401
Production : BF312P/JL - Jaw - Cast
Pin - Forged
Accessory - See chart
BF312P/JR - Shackle - Cast
Pin - Forged
Accessory - See chart
Surface treatment : "E.P." (Electro polished)

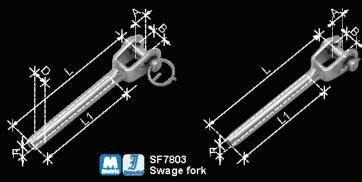
Field of application
Left threaded fork and Right threaded forks are designed for assembly with the turnbuckles or the other fittings together. Selection of left hand or right hand thread must be carefully checked.

Note: 11 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 5 load characteristics

Note: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 9 load characteristics



SF7803 Meterial SS316	SIZE (mm/inch	ØA n)(mm)	B (mm)		DiaØCable (mm)	e ØF (mm)	L (m m)	L1 (m m)	Accessory	\$	P B C	B.L. ^{[1)} (kgs)
6780-3002	2.0	5.00	7.0	5.53	2.0	2.20	53.5	32	Ring	1,500	1	700
6780-3025	2.5	5.00	7.0	5.53	2.5	2.70	62.0	35	Ring	1,500	2	700
6780-3003		6.00	8.0	6.35		3.30	68.0	38	Ring	1,000	3	1,250
6780-3004	4.0	8.00	11.0	7.54	4.0	4.30	77.0	45	Ring	500	3	1,800
6780-3005	5.0	9.00	12.0	9.12	5.0	5.30	87.0	51	Ring	250	3	2,650
6780-3006		12.00	14.5	12.54	6.0	6.35	109.0	64	Ring	150	n/a	4,000
6780-3007	7.0	12.00	14.5	14.30	7.0	7.30	116.0	70	Ring	150	n/a	5,800
6780-3008				16.13		8.40	148.0	80	Cotter pin	70	n/a	6500
6780-3010	10.0	16.00	17.0	17.85	10.0	10.50	164.0	100	Cotter pin	50	n/a	9000
6780-3012	12.0	19.00	20.0	21.44	12.0	12.50	215.0	144	Cotter pin	40	n/a	11,000
6780-3114	14.0	25.00	30.0	25.00	14.0	14.90	285.0	168	Cotter pin	10	n/a	13,000
6780-3116	16.0	25.00	30.0	28.17	16.0	17.10	313.0		Cotter pin	10	n/a	18,000
6780-3332		5.00	7.0	5.53		2.70	62.0	35	Ring		n/a	700
6780-3718		6.00	8.0	6.35		3.50	68.0	38	Ring		n/a	1,250
6780-3532	5/32"	8.00	11.0	7.54	5/32"	4.30	77.0	45	Ring	500	n/a	1,800
6780-3316		9.00	12.0	9.12		5.10	87.0	51	Ring		n/a	2,650
6780-3732	7/32"	9.00	12.0	10.84	7/32"	5.90	93.0	57	Ring	150	n/a	3,000
6780-3714	1/4"	12.00	14.5	12.54	1/4"	6.70	109.0	64	Ring	150	n/a	4,000
6780-3615	5/16"	14.28	15.0	16.13	5/16"	8.40	148.0	80	Cotter pin	70	n/a	7,250
6780-3318	3/8"	16.00	17.0	17.85	3/8"	9.90	154.0	90	Cotter pin	50	n/a	8,400







BF312P/JR Right threaded fork

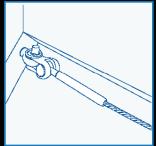
emno.	BF312P/JI	L SIZE	ØΑ	В	L	L1	M		E	PB	B.L. ^[2]
/bterial	SS316	(mm/inch)	(mm)	(mm)	(m m)	(mm)	(thread)	Accessory		Č	(kgs)
	6312-3318	M5	5	7.0	56.50	39	M5	Ring	1,000	1	250
	6931-2206	M6	6	8.0	68.50	50	M6	Ring	500	2	1,400
	6931-2256	M8	8	11.0	80.00	57	M8	Ring	400	3	2,200
	6312-3319	M10	9	12.0	98.50	68	M10	Ring	300	3	3,450
	6312-0612	M12	12	14.5	121.25	82	M12	Ring	180	n/a	5,000
	6931-2614	M14	14	15.0	136.00	95	M14	Cotter pin	100	n/a	6,400
	6312-0617	M16	16	17.0	143.00	102	M16	Cotter pin	50	n/a	8,000
	6312-0618	M20	19	20.0	160.00	113	M20	Cotter pin	40	n/a	10,500
	6312-0623	M22	25	30.0	217.50	146	M22	Cotter pin	n/a	n/a	15,000
	6312-0625	M24	25	30.0	215.50	144	M24	Cotter pin	25	n/a	18,000

	BF312P/JR	SIZE	ØΑ	В	L	L1	M		43	P	B.L. ^[2]
erial	SS316	(mm/inch)	(mm)	(mm)	(m m)	(mm)	(thread)	Accessory		Ç	(kgs)
	6931-2336	M5	5	7.0	56.50	39	M5	Ring	1,000	1	250
	6931-2306	M6	6	8.0	68.50	50	M6	Ring	500	2	1,400
	6931-2208	M8	8	11.0	80.00	57	M8	Ring	400	3	2,200
	6931-2210	M10	9	12.0	98.50	68	M10	Ring	300	3	3,450
	6312-6012	M12	12	14.5	121.25	82	M12	Ring	180	n/a	5,000
	6931-2214	M14	14	15.0	136.00	95	M14	Cotter pin	100	n/a	6,400
	6312-0619	M16	16	17.0	143.00	102	M16	Cotter pin	50	n/a	8,000
	6312-0620	M20	19	20.0	160.00	113	M20	Cotter pin	30	n/a	10,500
	6312-0629	M24	25	30.0	215.50	144	M24	Cotter pin	25	n/a	18,000



Terminals & Turnbuckles







S7805, SF7805

Technical Data

Technical Data
Forging material : AISI316 - DIN 1.4401
Production : \$7805 - Terminal - Cast
Toggle - Forged
Accessory - See chart
\$F7805 - Terminal / Toggle - Forged
Accessory - E-Ring
Surface treatment : "E.P." (Electro polished)

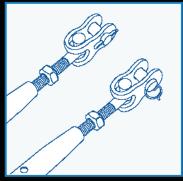
Field of application

Swage toggles are designed for swaging of a loose end wire rope. Wire must be properly swaged by using a swaging machine.

Note:(1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 5 load characteristics







B3125/L, B3125/R

Technical Data

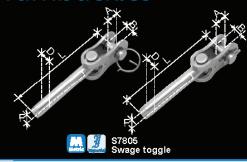
Permina Data
Proglug material : AISI316 - DIN 1.4401
Production : B3125/L - Toggle - Forged
Accessory - See chart
B3125/R - Toggle - Forged
Accessory - See chart
Surface treatment : "E.R." (Electro polished)

Field of application

Threaded toggles are designed for assembly with the tumbuckles or other fittings together. Selection of left hand or right hand thread must be carefully checked.

Note: 23 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 9 load characteristics

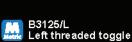


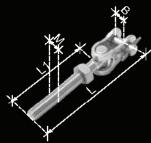


itemno. S7805 Material SS316	SIZE (mm/inch)	ØA (mm)	B (mm)	ØD (mm)	Dia Ø Cable (mm)	ØF (mm)	L (mm)	Accessory	\$	P B C	B.L. ⁽¹⁾ (kgs)
6780-5002	2.0	5	6	5.53	2.0	2.20	2.20	Ring	1,200	1	400
6780-5025	2.5	5	6	5.53	2.5	2.70	2.70	Ring	1,200	2	400
6780-5003	3.0	6	7	6.35	3.0	3.30	3.30	Ring	700	2	670
6780-5004	4.0	8	10	7.54	4.0	4.30	4.30	Ring	400	3	1,400
6780-5005	5.0	9	12	9.12	5.0	5.30	5.30	Ring	200	3	1,700
6780-5006	6.0	12	13	12.54	6.0	6.35	6.35	Ring	150	n/a	4,000
6780-5008	8.0	16	17	16.13	8.0	8.40	8.40	Cotter pin	50	n/a	7,000
6780-5010	10.0	19	20	17.85	10.0	10.50	10.50	Cotter pin	40	n/a	7,500
6780-5332	3/32"	5	6	5.53	3/32"	2.70	2.70	Ring	1,200	n/a	400
6780-5108	1/8"	6	7	6.35	1/8"	3.50	3.50	Ring	700	n/a	670
6780-5532	5/32"	8	10	7.54	5/32"	4.30	4.30	Ring	400	n/a	1,400
6780-5316	3/16"	9	12	9.12	3/16"	5.10	5.10	Ring	200	n/a	1,700
6780-5104	1/4"	12	13	12.54	1/4"	6.70	6.70	Cotter pin	150	n/a	4,000
6780-5516	5/16"	16	17	16.13	5/16"	8.40	8.40	Cotter pin	50	n/a	7,000
6780-5308	3/8"	19	20	17.85	3/8"	9.90	9.90	Cotter pin	25	n/a	7,500

**************************************	SIZE	ØΑ	В	ØD D	ia Ø Cabl	le Ø F	L	43	P	B.L. ^{[1)}
Material SS316	(mm)	(mm)	(mm)	(mm)	(mm)	(m m)	(mm)		Č	(kgs)
[] 2780-5003	3	6	6.4	6.30	3	3.3	3.30	600	1	1,200
2780-5004	4	8	9.0	7.50	4	4.3	4.30	300	2	2,000
2780-5005	5	10	11.0	9.08	5	5.3	5.30	200	2	3,000
F 2780-5006	6	12	13.0	12.50	6	6.3	6.30	60	3	4,500
[] 2780-5007	7	12	13.0	14.25	7	7.4	7.40	50	3	6,000
[] 2780-5008	8	14	13.0	16.08	8	8.4	8.40	50	n/a	7,500
[] 2780-5010	10	16	18.0	17.80	10	10.5	10.50	40	n/a	8,500
[] 2780-5012	12	19	22.0	21.40	12	12.5	12.50	25	n/a	11,500
F 2780-5014	14	22	24.0	24.95	14	14.9	14.90	15	n/a	18,000
[] 2780-5016	16	25	28.0	28.10	16	17.1	17.10	10	n/a	20,000







B3125/R Right threaded toggle

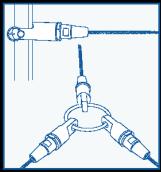
Material SS316	SIZE (mm)	Ø A (mm)	B (mm)	L (mm)	L1 (mm)	M (mm)	Accessory	\$	P B C	B.L. ^{[2)} (kgs)
6312-5055	M5	5.00	6	63	42	M5	Ring	1,000	1	500
6312-5066	M6	6.00	7	72	48	M6	Ring	350	2	900
6931-2580	M8	8.00	10	88	56	M8	Ring	350	3	1,650
6931-2501	M10	9.00	12	106	67	M10	Ring	180	3	2,500
6931-2521	M12	12.00	13	125	81	M12	Ring	60	n/a	3,700
6931-2541	M14	14.28	15	142	89	M14	Cotter pin	50	n/a	5,000
6931-2561	M16	16.00	17	162	103	M16	Cotter pin	45	n/a	6,950
6931-2502	M20	19.00	20	186	115	M20	Cotter pin	30	n/a	10,000
B3125/R	SIZE	ØΑ	В	L	L1	M		E	P	B.L. ^[2]
B3125/R Material SS316	SIZE (mm)	ØA (mm)	B (m m)	L (mm)	L1 (mm)	(mm)	Accessory		P B C	B.L. ^{[2)} (kgs)
B3125/R			_	L (mm) 63			Accessory Ring	1,000	B	B.L.
B3125/R Material SS316	(mm)	(mm)	(m m)		(mm)	(mm)		1,000 350	B	(kgs)
SS316 6312-5055	(mm) M5	(mm) 5.00	(mm)	63	(mm) 42	(mm) M5	Ring		e c	(kgs) 500
B3125/R Material SS316 6312-5055 6312-5066	(mm) M5 M6	(mm) 5.00 6.00	(mm) 6 7	63 72	(mm) 42 48	(mm) M5 M6	Ring Ring	350	1 2	(kgs) 500 900
SS316 6312-5055 6312-5066 6931-2580	(mm) M5 M6 M8	5.00 6.00 8.00	(mm) 6 7 10	63 72 88	(mm) 42 48 56	(mm) M5 M6 M8	Ring Ring Ring	350 350	1 2 3	(kgs) 500 900 1,650
83125/R SS316 6312-5055 6312-5066 6931-2580 6931-2501	(mm) M5 M6 M8 M10	5.00 6.00 8.00 9.00	(mm) 6 7 10 12	63 72 88 106	(mm) 42 48 56 67	(mm) M5 M6 M8 M10	Ring Ring Ring Ring	350 350 180	1 2 3 3	(kgs) 500 900 1,650 2,500
SS316 6312-5055 6312-5066 6931-2580 6931-2501 6931-2521	(mm) M5 M6 M8 M10 M12	5.00 6.00 8.00 9.00 12.00	(mm) 6 7 10 12 13	63 72 88 106 125	(mm) 42 48 56 67 81	(mm) M5 M6 M8 M10 M12	Ring Ring Ring Ring Ring	350 350 180 60	1 2 3 3 n/a	500 900 1,650 2,500 3,700





Terminals & Turnbuckles P





S811, S812

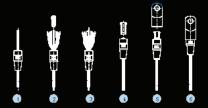
Technical Data

AISI316 - DIN 1.4408 S811 - Terminal - Cast S812 - Terminal - Cast Casting material Production

Cable construction: 1x19 Surface treatment: :"M.F." (Matte finished)

Field of application

Swageless eye terminals are designed for easy assembly of loose wire rope. No Swaging machine is needed during assembly process. Once assembled it is not expected to sustain high loads.



Instructions for assembly of S811



Instructions for assembly of S812

S811M, S812M

Technical Data

: AISI316 - DIN 1,4408 : S811M - Terminal - Cast S812M - Terminal - Cast Casting material Production Cable construction: See chart
Surface treatment: "M.F." (Matte finished)

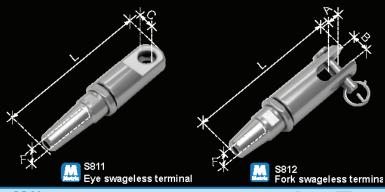
Field of application
Micro eye swag eless terminals are designed for a new smaller profile from our original swag eless system. This is available for both 7x7 configuration cable and 1x19 configuration cable.

Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 4 load characteristics

Note: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 5 load characteristics



tem no. Taterist	\$811 \$\$316	SIZE (m m)	ØC (mm)	ØF (mm)	L (mm)	Dia Ø Cable ' (mm)	*	P B C	B.L. ⁽¹⁾ (kgs)
	6811-0003	3	6.00	3.5	64	3	600	2	300
	6811-0004	4	8.00	4.5	71	4	250	2	500
	6811-0005	5	10.00	6.0	91	5	200	3	900
	6811-0006	6	12.75	7.0	98	6	135	n/a	1,900
	6811-0008	8	16.00	9.0	121	8	75	n/a	2,250
	6811-0010	10	16.00	11.0	152	10	40	n/a	3,300
tem no. Taterial	\$812 \$8316	SIZE (m m)	ØA (mm)	B F	L 1) (mm)	Dia Ø Cable	*	P B C	B.L. ⁽²⁾ (kgs)

Material	\$812 \$\$316	SIZE (mm)	ØA (mm)	B (mm)	F (mm)	L (mm)	Dia Ø Cable (mm)	1	P B C	B.L. ⁽²⁾ (kgs)
	6812-0003	3	5	6	3.5	69	3	400	2	300
	6812-0004	4	6	8	4.5	76	4	250	2	500
	6812-0005	5	8	10	6.0	98	5	200	3	900
	6812-0006	6	10	11	7.0	106	6	100	n/a	1,200
	6812-0008	8	11	14	9.0	134	8	60	n/a	2,250
	6812-0010	10	13	14	11.0	166	10	30	n/a	3,300



6812-1008

6812-7008

6812-1010

6812-7010



S811M

1.1	5812	IVI		
and the	Fork	м swageless	terminal	(Micr

	Eye	swageles	s term	ninal ((Micro)		Fork	swageless	termina	al (Micro
item no. Material	\$811 M \$\$316	SIZE (mm)	ø C (mm		ØF (mm)	L (m m)	Dia Ø Cable (mm)	Cable construction	P B C	B.L. ⁽¹⁾ (kgs)
	6811-0319	3	5.5	5	3.4	47.7	3	1x19	2	300
	6811-0377	3	5.5	5	3.4	47.7	3	7x7	2	300
	6811-0419	4	6.5	5	4.4	55.1	4	1x19	3	500
	6811-0477	4	6.9	5	4.4	55.1	4	7x7	n/a	500
	6811-0519	5	8.9	5	5.4	64.6	5	1x19	n/a	900
	6811-0577	5	8.8	5	5.4	64.6	5	7x7	n/a	900
	6811-0619	6	10.5	5	6.4	82.7	6	1x19	n/a	1,900
	6811-0677	6	10.5	5	6.4	82.7	6	7x7	n/a	1,900
	6811-0819	8	12.5	5	8.5	100.7	8	1x19	n/a	2,250
	6811-0877	8	12.5	5	8.5	100.7	8	7x7	n/a	2,250
	6811-1019	10	14.9	5	10.5	117.8	10	1x19	n/a	3,300
	6811-1077	10	14.5	5	10.5	117.8	10	7x7	n/a	3,300
item no. Material	\$812M	SIZE	ØA	B (*****)	F ()	L (====)	Dia Ø Cable	Cable construction	J P B C	B.L. ⁽²⁾
	SS316	(m m)	(mm)	(mm)	(mm)	(m m)	(m m)			(kgs)
	6812-1003		4	5	3.4	47.3	3	1x19	2	225
	6812-7003		4	5	3.4	47.3	3	7x7	2	225
	6812-1004		5	6	4.4	54.7	4	1x19	3	375
	6812-7004		5	6	4.4	54.7	4	7x7	n/a	375
	6812-1005		6	6	5.4	64.3	5	1x19	n/a	675
	6812-7005		6	6	5.4	64.3	5	7x7	n/a	675
	6812-1006		7	7	6.4	82.3	6	1x19	n/a	900
	6812-7006	6	7	7	6.4	82.3	6	7x7	n/a	900

100.4

100.4

117.2

117.2

10

8.5

10.5

8

8

10

10

8

n/a

n/a

1,690

1,690

2,475

2,475

1x19

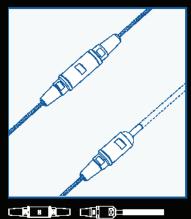
7x7

1x19

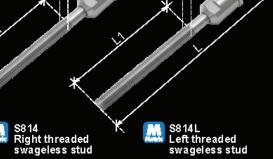
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Terminals & Turnbuckles









Technical Data	
Casting material	: AISI316 - DIN 1.4408
Production	: S813-Terminal-Cast
	S814 - Term inal - Cast
	Codd Terminal Care

S813, S814, S814L

Cable construction: 1x19
Surface treatment: "M.F." (Matte finished)

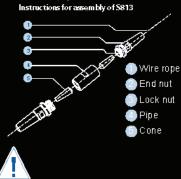
Field of application
Swageless joiners and swageless studs are designed for easy assembly of loose wire rope. No Swaging machine is needed during assembly process. Once assembled it is not expected to sustain high loads.

Note:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV- dass 6 load characteristics

Note: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV-dass 10 load characteristics



- 1. Always wear safety goggles and gloves when working with wire rope.
- 2. Never stand on, drive over or put things on wire rope.

ilem no.	S813	SIZE	ØF		L	Dia Ø Ca	ıble 🖑		B.L. ⁽¹⁾
Material	\$\$316	(mm)	(mn	n)	(mm)	(mm)		(kgs)
	6813-0003	3	3.5	5	86	3	4	100	300
	6813-0004	4	4.5	5	93	4	2	!50	500
	6813-0005	5	6.0	0	128	5	2	100	900
	6813-0006	6	7.0	0	132	6	1	00	1,900
	6813-0008	8	9.0	0	165	8		50	2,250
	6813-0010	10	11.0	0	212	10		30	3,300
ilem no.	S814	SIZE	ØF	- 1	L1	M	Dia Ø Cable	£	B.L. ^[2]
Material	\$8316	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	1	(kgs)
	6814-0003	3	3.5	120	60	M6	3	350	300
	6814-0004	4	4.5	129	63	M8	4	200	500
	6814-0005	5	6.0	172	85	M10	5	200	900
	6814-0006	6	7.0	200	107	M12	6	100	1,900
	6814-0008	8	9.0	242	126	M16	8	50	2,250
	6814-0010	10	11.0	267	126	M16	10	30	3,300
ilem no.	S814L	SIZE	ØF	L	L1	M	Dia Ø Cable	F	B.L. ^[2]
Material	SS316	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	6814-1003	3	3.5	120	60	M6	3	n/a	300
	6814-1004	4	4.5	129	63	M8	4	200	500
	6814-1005	5	6.0	172	85	M10	5	150	900
	6814-1006	6	7.0	200	107	M12	6	100	1,900
	6814-1008	8	9.0	242	126	M16	8	50	2,250
	6814-1010	10	11.0	267	126	M16	10	30	3,300



S814N Right threaded swageless stud with nut

S814N/L Left threaded swageless stud with nut

S814N, S814N/L schnical Data asting material : AISI316 - DIN1.4408	
roduction : S814N - Terminal - Cast S814N/L - Terminal - Cast	
able construction: 1x19 urface treatment: "M.F." (Matte finished)	
ield of application wageless studs with nuts are used for wire rope where the use of a swaging machine is not ecessary. They are assembled with a pair of panners and can be taken off and reused.	

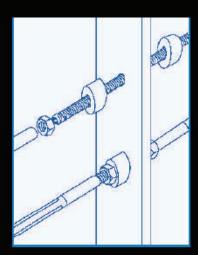
Referto page IV-dass 10 load characteristics

ilem no. Material	S814N 88316	SIZE (mm)	ØF (mm)	L (mm)	L1 (mm)	M (mm)	Dia Ø Cable (mm)	1	B.L. ^[2] (kgs)
	6814-2003	3	3.5	120	60	M6	3	400	300
	6814-2004	4	4.5	129	63	M8	4	250	500
	6814-2005	5	6.0	172	85	M10	5	200	900
	6814-2006	6	7.0	200	107	M12	6	100	1,900
	6814-2008	8	9.0	242	126	M16	8	50	2,250
	6814-2010	10	11.0	267	126	M16	10	30	3,300
ilem no. Material	S814N/L SS316	SIZE (mm)	ØF (mm)	L (mm)	L1 (mm)	M (mm)	Dia Ø Cable	1	B.L. ⁽²⁾ (kgs)
	6814-3003	3	3	120	60	M6	3	400	300
	6814-3004	4	4	129	63	M8	4	250	500
	6814-3005	5	5	172	85	M10	5	200	900
	6814-3006	6	6	200	107	M12	6	100	1,900
	6814-3008	8	8	242	126	M16	8	50	2,250
	6814-3010	10	10	267	126	M16	10	30	3,300
	0014-3010	10		207	120	INITO	10	30	3,300



Terminals & Turnbuckles OPI





LTS, RTS
Technical Data
Forging materal : AISB16: DIN 1.4407
Surface treatment : "MLPS" Wasdnine Polished)

Field of application

Left threaded studs and right threaded studs are designed for assembly with mechanical threaded end fittings. Threaded stud length can be cut and adjusted accordingly.

Note: 119 Standard safety factor for working load is 1./4 of breaking load.

Refer to page IV - dass 8 load characteristics



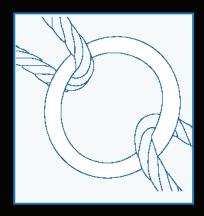
LTS Left threaded stud

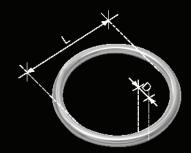
Ramino.	LTS	SIZE	L	B.L. ⁽¹⁾
Material	SS316	(mm/inch)	(mm)	(kgs)
	2610-1000	M6	1,000	1,200
	2810-1000	M8	1,000	2,200
	2101-1000	M10	1,000	3,200
	2122-1000	M12	1,000	5,000
	2162-1000	M16	1,000	8,000
	2202-1000	M20	1,000	12,000
	2242-1000	M24	1,000	19,000
	2104-1000	1/4"-20UNC	1,000	1,200
	2506-1000	5/16"-18UNC	1,000	2,200
	2318-1000	3/8"-16	1,000	2,000
	2124-1000	1/2"-12	1,000	5,200
	2102-1000	1/2"-13UNC	1,000	5,200
	2102-2100	1/2"-20UNF	1,000	5,200
demino.	RTS	SIZE	1	B.L. ⁽¹⁾
Material	SS316	(mm/inch)	(mm)	(kgs)
	2600-1000	M6	1,000	1,200
	2800-1000	M8	1,000	2,200
	2100-1000	MIO	1,000	3,200
	2120-1000	M12	1,000	5,000
	2160-1000	M16	1,000	8,000
	2200-1000	M20	1,000	12,000
	2240-1000	M24	1,000	19,000
	2142-1000	1/4"-20UNC	1,000	1,200
	2516-1000	5/16"-18UNC	1,000	2,200
	2308-1000	3/8"-16	1,000	3,000
	2112-1000	1/2"-12	1,000	5,200
	2123-1000	1/2"-13UNC	1,000	5,200
	2121-1000	1/2"-20UNE	1.000	5.200













O SF317

Field of application

Round rings are designed for assembly into many fittings. Rings are all made by TIG Argon welding.

Note:(1) See Note:E1

Refer to page IV - class 11 load characteristics

Note E1: Breaking load is described as the load point where welding fails. Deformation load is however lower and is dependent on the diameter of rod and circumference of ring. A general rule is to assume deformation load at around 1/5 of breaking load.

SF:	317	SIZE	ØD	L	4	P	B.L. ^[1]
Material SS304	SS316	(mm)	(m m)	(mm)		P B C	(kgs)
4317-0310	6317-0310	3*10	3	10	8,000	1	650
4317-0315	6317-0315	3*15	3	15	5,000	1	650
4317-0320	6317-0320	3*20	3	20	3,000	1	650
4317-0325	6317-0325	3*25	3	25	3,000	1	650
4317-0330	6317-0330	3*30	3	30	2,000	1	650
4317-0335	6317-0335	3*35	3	35	2,000	1	650
4317-0340	6317-0340	3*40	3	40	1,500	1	650
4317-0420	6317-0420	4*20	4	20	2,500	2	1,000
4317-0425	6317-0425	4*25	4	25	2,000	2	1,000
4317-0430	6317-0430	4*30	4	30	1,600	2	1,000
431 <i>7-0</i> 435	6317-0435	4*35	4	35	1,600	2	1,000
4317-0440	6317-0440	4*40	4	40	1,500	2	1,000
4317-0520	6317-0520	5*20	5	20	1,000	3	2,000
4317-0525	6317-0525	5*25	5	25	2,000	3	2,000
4317-0530	6317-0530	5*30	5	30	1,500	3	2,000
4317-0535	6317-0535	5*35	5	35	1,200	3	2,000
4317-0540	6317-0540	5*40	5	40	1,000	3	2,000
4317-0545	6317-0545	5*45	5	45	700	3	2,000
4317-0550	6317-0550	5*50	5	50	500	5	2,000
4317-0560	6317-0560	5*60	5	60	600	5	2,000
4317-0565	6317-0565	5*65	5	65	400	5	2,000
4317-0625	6317-0505	6*25	6	25	350	n/a	2,700
4317-0630	6317-0630	6*30	6	30	1,000	n/a	2,700
4317-0635	6317-0635	6*35	6	35	1,000	n/a	2,700
4317-0640	6317-0640	6*40	6	40	800	n/a	2,700
4317-0645	6317-0645	6*45	6	45	600	n/a	2,700
4317-0650	6317-0650	6*50	6	50	500	n/a	2,700
4317-0655	6317-0655	6*55	6	55	500	n/a	2,700
4317-0660	6317-0660	6*60	6	60	400	n/a	2,700
4317-0680	6317-0680	6*80	6	80	300	n/a	2,700
4317-0690	6317-0690	6*90	6	90	200	n/a	2,700
4317-0740	6317-0740	7*40	7	40	250	n/a	3,200
4317-0745	6317-0745	7*45	7	45	500	n/a	3,200
4317-0750	6317-0750	7*50	7	50	500	n/a	3,200
4317-0755	6317-0755	7*55	7	55	400	n/a	3,200
4317-0760	6317-0760	7*60	7	60	300	n/a	3,200
4317-0765	6317-0765	7*65	7	65	250	n/a	3,200
4317-0830	6317-0830	8*30	8	30	250	n/a	5,000
431 <i>7-0</i> 835	6317-0835	8*35	8	35	500	n/a	5,000
4317-0840	6317-0840	8*40	8	40	500	n/a	5,000
431 <i>7-0</i> 845	6317-0845	8*45	8	45	300	n/a	5,000
4317-0850	6317-0850	8*50	8	50	250	n/a	5,000
4317-0855	6317-0855	8*55	8	55	300	n/a	5,000
4317-0860	6317-0860	8*60	8	60	250	n/a	5,000
4317-0865	6317-0865	8*65	8	65	200	n/a	5,000
431 <i>7-087</i> 0	6317-0870	8*70	8	70	200	n/a	5,000
4317-0875	6317-0875	8*75	8	75	250	n/a	5,000
4317-0880	6317-0880	8*80	8	80	150	n/a	5,000
431 <i>7-089</i> 0	6317-0890	8*90	8	90	150	n/a	5,000
4317-0810	6317-0810	8*100	8	100	100	n/a	5,000
4317-0930	6317-0930	9*30	9	30	400	n/a	6,200
4317-0950	6317-0950	9*50	9	50	200	n/a	6,200
4317-0960	6317-0960	9*60	9	60	250	n/a	6,200
4317-0965	6317-0965	9*65	9	65	125	n/a	6,200
431 <i>7-097</i> 0	6317-0970	9*70	9	70	150	n/a	6,200
4317-0980	6317-0980	9*80	9	80	100	n/a	6,200

E77

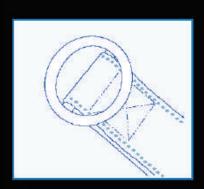








	317	SIZE	ØD	L	C	B.L. ^(c)
SS3 04	55316	(mm)	(mm)	(mm)	1	(kgs)
4317-0990	6317-0990	9*90	9	90	80	6,200
4317-1040	6317-1040	10*40	10	40	250	8,500
4317-7050	6317-1050	10*50	10	50	150	8,500
4317-1055	6317-1055	10*55	10	55	125	8,500
4317-1060	6317-1060	10*60	10	60	150	8,500
4317-1065	6317-1065	10*65	10	65	130	8,500
4317-1070	6317-1070	10*70	10	70	100	8,500
4317-1075	6317-1075	10*75	10	75	100	8,500
4317-1080	6317-1080	10*80	10	80	100	8,500
4317-1090	6317-1090	10*90	10	90	70	8,500
4317-1010	6317-1010	10*100	10	100	75	8,500
4317-1012	6317-1012	10*120	10	120	45	8,500
4317-1014	6317-1014	10°140	10	140	35	8,500
4317-1260	6317-1260	12*60	12	60	125	10,000
4317-1265	6317-1265	12×65	12	65	120	10,000
4317-1270	6317-1270	12*70	12	70	100	10,000
4317-1275	6317-1275	12*75	12	75	80	10,000
4317-1280	6317-1280	12*80	12	80	80	10,000
4317-1290	6317-1290	12*90	12	90	100	10,000
4317-1210	6317-1210	12*100	12	100	50	10,000
4317-1211	6317-1211	12*110	12	110	45	10,000
4317-1212	6317-1212	12*120	12	120	40	10,000
4317-1214	6317-1214	12×140	12	140	25	10,000
4317-1355	6317-1355	13×55	13	55	125	11,500
4317-1360	6317-1360	13*60	13	60	100	11,500
4317-1365	6317-1365	13*65	13	65	90	11,500
4317-1370	6317-1370	13*70	13	70	70	11,500
4317-1380	6317-1380	13*80	13	80	50	11,500
4317-1390	6317-1390	13×90	13	90	50	11,500
4317-1310	6317-1310	13*100	13	100	50	11,500
4317-1312	6317-1312	13 *120	13	120	30	11,500
4317-1313	6317-1313	13×130	13	130	35	11,500
4317-1314	6317-1314	13*140	13	140	35	11,500
4317-1315	6317-1315	13*150	13	150	35	11,500
4317-1316	6317-1316	13*160	13	160	20	11,500





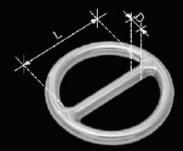
Technical Data
Forging material : AISI316 - DIN 1.4401
Production : SF3171 - Ring - Wolded
Surface Treatment : "E.R." (Electro polished)

Field of application

Round rings (center cross bar) are designed for assembly into many fittings. Rings are all made by IIG Argon welding.

Note:(1) See Note:E1 on page E1

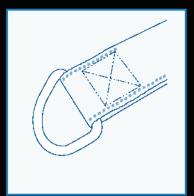
Refer to page IV - class 11 load characteristics

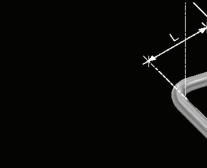


SF3171 Round ring (center cross bar)

terano	SF3171	SIZE	D	L	53	B.L. ⁽¹¹⁾
Horard	\$\$316	(mm)	(mm)	(mm)		(kgs)
	6317-1630	6*30	6	30	800	2,700
	6317-1640	6×40	6	40	600	2,700
	6317-1840	8*40	8	40	250	5,000
	6317-1850	8*50	8	50	250	5,000
	6317-1960	9160	9	60	150	6,200
	6317-1150	10*50	10	50	130	8,500
	6317-1106	10*60	10	60	125	8,500
	6317-1107	10*70	10	70	100	8,500
	6317-1108	10*80	10	80	100	8,500
	6317-1125	12*50	12	50	n/a	10,000
	6317-1126	12*65	12	65	110	10,000
	6317-1128	12*80	12	80	60	10,000











SF3250

Technical Data

Forging material : AISI304 - DIN 1.4301/
AISI316 - DIN 1.4401

Production : SF3250 - Ring - Welded
Surface treatment : "E.P." (Electro polished)

Field of application

Dee rings are designed for assembly into many fittings. Rings are all made by TIG Argon welding.

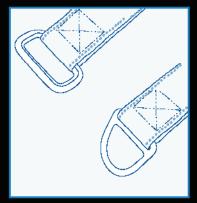
Note:⁽¹⁾ See Note: E1 on page E1

Refer to page IV - class 1 load characteristics



	3250	SIZE	В	ØD	L	43	B.L. ^[1]
SS304	SS316	(m m)	(m m)	(mm)	(m m)		(kgs)
4325-0315	6325-0315	3*15	16	3	14	6,400	600
4325-0320		3*20	20	3	17	4,000	600
4325-0325		3*25	26	3	22	3,000	600
4325-0330	6325-0330	3*30	30	3	25	2,400	600
4325-0420		4*20	20	4	17	3,000	800
4325-0425		4*25	27	4	22	2,000	800
4325-0430		4*30	30	4	25	1,500	800
4325-0435		4*35	35	4	30	1,500	800
4325-0440		4*40	39	4	34	1,500	800
4325-0450		4*50	51	4	43	800	800
4325-0525		5*25	26	5	22	1,800	1,000
4325-0530		5*30	30	5	25	1,200	1,000
4325-0535		5*35	35	5	30	1,200	1,000
4325-0540		5*40	39	5	34	1,000	1,000
4325-0545		5*45	45	5	38	750	1,000
4325-0550		5*50	52	5	43	450	1,000
4325-0560		5*60	60	5	51	400	1,000
4325-0625		6*25	26	6	22	1,000	1,800
4325-0630		6*30 6*35	30	6	25	1,200	1,800
4325-0635		6*35	35 30	6	30	700	1,800
4325-0640		6*40	39 45	6	34	700	1,800
4325-0645		6*45 6*50	45 51	6	38 42	600	1,800
4325-0650 4225-0655		6*50	51	6	43 47	500 450	1,800
4325-0655 4225-0660		6*55 6*60	55 60	6	47 51	450 200	1,800
4325-0660 4325-0670		6*60 6*70	60 70	6	51 60	300 250	1,800
4325-0670 4325-0750		6*70 7*50	70 51	6 7	60 43	250 400	1,800 7,700
4325-0750 4325-0845		7*50 8*45	51 45	/ 8	43 38	400 400	2,200 2,800
4325-0845 4325-0850		8*45 8*50	45 51	8 8	38 43	400 300	2,800 2,800
4325-0850 4325-0855		8*50 8*55	51 55	8 8	43 47	300 250	2,800 2,800
4325-0855 4325-0860		8*60	55 60	8	47 51	250 250	2,800 2,800
4325-0865		8*65	65	8	51 55	250 250	2,800 2,800
4325-0863 4325-0870		8*70	70	8	55 60	200	2,800 2,800
4325-0875		8*75	75 75	8	64	150	2,800
4325-0880		8*80	80	8	68	200	2,800
4325-0960		9*60	60	9	52	150	3,500
4325-0970		9*70	70	ý	60	175	3,500
4325-0150		10*50	50	10	43	150	5,000
4325-0160		10*60	60	10	51	150	5,000
4325-0265		10*65	65	10	55	150	5,000
4325-0170		10*70	70	10	60	150	5,000
4321-0180		10*80	80	10	68	80	5,000
4325-0190		10*90	90	10	77	70	5,000
4325-0110		10*100	102	10	87	75	5,000





SF4900, SF32501

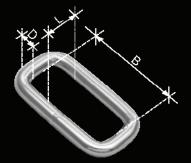
Technical Data

Technical Data
Forging material : AISI304 - DIN 1.4301
Production : SF4900 - Ring - Welded
SF3.2501 - Ring - Welded
Surface treatment : "E.P." (Electro polished)

Field of application

Square rings and Dee rings (cross bar) are designed for assembly into many fittings. Rings are all made by TIG Argon welding.

Rings & Eve plates P

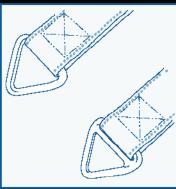






SF32501 Dee ring (cross bar)

item no. Material	SF4900 SS304	SIZE (mm)	B (mm)	Ø D (mm)		L (mm)	*	B.L. ⁽¹⁾ (kgs)
	4490-0520	5*20	20	5		12.0	1,500	1,000
	4490-0525	5*25	26	5		15.0	1,500	1,000
	4490-0530	5*30	32	5		18.0	1,200	1,000
	4940-0540	5*40	39	5		21.0	1,000	1,000
	4490-0650	6*50	52	6		25.4	600	1,500
	4490-0747	7*47	47	7		30.0	500	1,800
	4490-0865	8*65	65	8		38.0	200	3,300
item no.	SF32501	SIZE	В	ØD	Ø D1	L	C	B.L. ^[1]
Material	SS304	(mm)	(mm)	(mm)	(m m)	(m m)		(kgs)
	4325-0154	5*45	45	5	4	39	500	1,000
	4325-0155	5*50	52	5	4	43	500	1,000
	4325-0164	6*45	48	6	5	45	450	1,800
	4325-0165	6*50	50	6	5	43	450	1,800
	4325-0184	8*45	45	8	6	36	250	2,800
	4325-0185	8*50	50	8	6	43	250	2,800





SF3252, SF3251

Technical Data

Forging material : AISI304 - DIN 1.4301/ Forging material : AISI316 - DIN 1.4401 Production : SF3252 - Ring - Welded SF3251 - Ring - Welded Surface treatment : "E.P." (Electro polished)

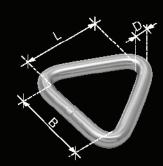
Field of application

Triangle rings and Triangle rings (cross bar) are designed for assembly into many fittings. Rings are all made by TIG Argon welding.

Note:(1) See Note:E1 on page E1

Refer to page IV - dass 12 load characteristics







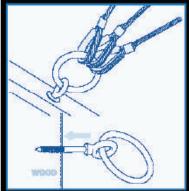


SF3251 Triangle ring (cross bar)

(blerial	3252	SIZE	В	ØD	L	53	B.L. ^{[1)}
SS304	SS316	(mm)	(mm)	(mm)	(mm)		(kgs)
4325-2335	6325-2335	3*35	35	3	35	3,200	600
4325-2420	6325-2420	4*20	20	4	18	3,000	900
4325-2530	6325-2530	5*30	30	5	30	1,200	1,300
4325-2540	6325-2540	5*40	40	5	36	1,200	1,300
4325-2545	6325-2545	5*45	45	5	39	1,000	1,300
4325-2640	6325-2640	6*40	40	6	36	700	2,000
4325-2645	6325-2645	6*45	45	6	40	700	2,000
4325-2650	6325-2650	6*50	51	6	45	600	2,000
4325-2770	6325-2770	7*70	70	7	70	300	2,200
4325-2845	6325-2845	8*45	45	8	41	450	2,800
4325-2850	6325-2850	8*50	50	8	45	400	2,800

SF3	251	SIZE	В	С	ØD	ØD1	L	T	B.L. ^[1]
SS304	SS316	(m m)	(m m)	(mm)	(mm)	(mm)	(mm)		(kgs)
4325-1545	6325-1545	5*45	46	5	5	5	41	600	1,300
4325-1550	6325-1550	5*50	52	5	5	5	45	500	1,300
4325-1643	6325-1643	6*43	46	4	6	5	41	500	1,800
4325-1645	6325-1645	6*45	46	4	6	5	53	500	1,800
4325-1650	6325-1650	6*50	52	5	6	5	45	500	1,800
4325-1845	6325-1845	8*45	46	5	8	6	41	300	2,800
4325-1850	6325-1850	8*50	52	5	8	6	45	250	2,800
4325-1860	6325-1860	8*60	61	5	8	6	54	250	2,800







SF319

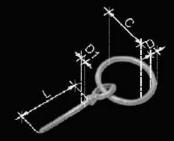
Technical Data

Forging meterial : ALSB04- DIN 14301 Production : SFS19- Ring- Welded Bott- Forged Surface treatment | "E.R." (Electro polished)

Ring botts (with washer and nut) are designed for assembly into many applications. Rings are all made by TIG. Argon widding.







S329 Ring wooden screw

Nom no.	SF319 55304	SIZE (mm)	ØC (mm)	Ø D (mm)	L (mm)	M (thread)	4	B.L. ⁽¹⁾ (kgs)
	4319-0003	3	20	3	60	PA5	1,500	400
	4319-0005	5	30	5	60	M5	1,000	550
	4319-0006	6	35	6	75	MG	400	1,000
	4319-0660	6*60	35	6	75	ME	500	1,000
	4319-0007	7	40	7	75	1.46	400	1,000
	4319-0008	8	45	8	75	MS	200	1,800
	4319-0880	8*80	45	8	80	344	200	1,800
	4319-0009	9	50	9	110	M10	100	2,400
	4319-9120	9*120	50	9	120	FM10	100	2,400
	4319-9140	9*140	50	9	140	M10	100	2,400
	4319-0110	10*100	50	10	100	M10	100	2,400
	4319-0012	12	60	12	110	M12	100	4,000
	4319-0121	12*120	60	12	120	7 4 12	6.0	4,000
	4319-0122	12*150	60	12	150	JM12	60	4,000
	4319-0123	12*180	60	12	180	IM12	5.0	4,000
	4319-0124	12*200	60.	12	200	M12	45	4,000



S329

Technical Data
Casting material : AISIS16 - DIN 1.4408
Production : S329 - Ring - Welded
Bott - Cast
Surface treatment : "E.P." | Electro polished |

Ring wooden screws are designed for assembly into wood panel for many applications. Rings are all made by TIG Argon welding.

Note:(1) See Note:E1 on page E1

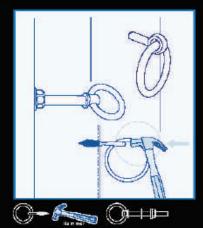
Refer to page IV - dess 13 load characteristics

ntermini.	SF319 88316	SIZE (mm)	ØC (mm)	ØD (mm)	Ø D 1 (mm)	L (mm)	9	B.L. ⁽¹⁾ (kgs)
	6329-0640	6*40	50	6	6	40	300	900
	6329-0660	6*60	50	6		60	250	900
	6329-0680	6*80	50	6	6	80	250	900
	6329-0610	6*100	50	6	6	1.00	250	900
	6329-0860	8*60	50	8	8	60	150	1,600
	6329-0880	8*80	50	8	8	80	140	1,500
	6329-0810	8*100	50	8	8	100	125	1,600
	6329-0812	8*120	50	8	8	1.20	125	1,600
	6329-0160	10*60	75	10	10	60	75	2,500
	6329-0180	10*80	75	10	10	BO	65	2,500
	6329-0110	10*100	75	10	10	100	60	2,580
	6329-0112	10+120	75	10	10	120	60	2,500
	6329-0280	12*80	75	12	12	80	5.0	3,500
	6329-0210	12*100	75	12	12	1.00	5.0	3,500
	6329-0212	12*120	75	12	12	120	50	3,500
	6329-0214	12*140	75	12	12	140	40	3,500
	6329-0216	12*160	75	12	12	160	40	3,500









SF318, SF126

Technical Data

Forging material : AISB04 - DIN 1 4 301 SF318 - Ring - Weldad Nail - Forged SF128 - Ring - Weldad SF128 - Ring - Weldad Bott - Forged Surface treatment : "E.R." (Electropolished)

Field of application

Filed of application
Ring nails are designed for hammering into wood
panel for many applications. Rings are all made by
TIG Argon welding.
Ring boils by thit two washers and nutil are designed
for screwin to different panels for different applications.
Rings are all made by TIG Argon welding.





\$319LT, \$3192, \$F3192

Technical Data Casting material

Field of application

Lagring holts are designed for screw into wooden panels for different applications. Rings are all made by TIG Argon welding.

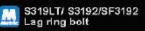
Note:(1) See Note :E1 on page E1

Refer to page IV - class 13 load characteristics







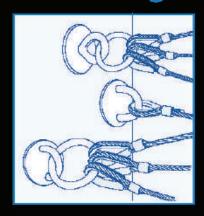


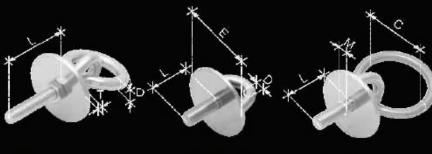
Moterial	SF318 SS304	SIZE (mm)	ØC (mm)	Ø D (m m)	i	L (mm)	7	B.L. ⁽¹⁾ (kgs)
	4378-0003	3	25	-3		45	2,000	400
	4318-0004	4	30			5.0	1,200	700
	4318-0005	5	35	5		60	700	1,150
	4378-0006	6	40	6		65	400	1,950
	4318-0008	8	45	8		65	250	2,700
Memino. Malerial	SF126 55364	SIZE (mm)	ØC (mm)	ØD (mm)	L (mm)	M (thread)	9	B.L. ⁽¹⁾ (kgs)
	4126-1085	10#85	32	6	85	M10	300	2,500
	4126-1010	10*100	32	6	100	M10	250	2,500

Moserial	S319LT S5316	SIZE (mm)	øc (mm)	ØD (mm)	ØD1 (mm)	L (mm)	Bolt	4	B.L. ⁽¹⁾ (kgs)
	6319-9003	3	25	3	4	45	Forged	1,400	550
	6319-9005	5	30			50	Cast	700	900
	6319-9007	7	50	7		60	Cast	250	1,500
nemne.	S3192	SIZE	ØC	ØD	ØD1	L		表象	B.L. ^{[1)}
Material	58316	(mm)	(mm)	(mm)	(mm)	(mm)	Bolt		(kgs)
	6319-2655	6155	30	6	6	55	Cast	600	900
	6319-2661	6*60	30	6		60	Forged	500	900
	6319-2860	8*60	50	8		60	Cast	200	1,500
	6319-2880	8 * 80	50	8	В	80	Cast	180	1,500
	6319-2108	10#80	60	10	1.0	80	Cast	7.5	2,500
	6319-2110	10*100	60	10	1.0	100	Cast	100	2,500
	6319-2121	12*100	75	12	12	100	Cast	.50	3,500
	6319-2122	12*120	75	12	1.2	120	Cast	50	3,500
nemne.	SF3192	SIZE	ØC	øр		וסכ	ī	£3	B.L. ⁽¹⁾
Mixeres	SS316	(mm)	(mm)	(mm)		mm)	(mm)	T.	(legs)
	2319-2445	4*45	25	3		4	45	1,500	550
	2319-2655	6*55	30	6		6	55	600	900
	2319-2661	6+60	30				60	500	900
	2319-2860	8*60	50	8		8	60	200	1,500
	2319-2880	8*80	50	8		B	80	180	1,500
	2319-2810	8*100	50	8			100	n/a	1,500
	2319-2108	10780	60	10		10	80	7.5	2,500
	2319-2110	10*100	60	10		10	100	100	2,500









M SF308 Lag bolt (with wide washer and nut)

SF3215

M SF3215 Round pad bolt SF3205 Round pad bolt (with ring)

SF308 S.L. (1) 55304 (mm)

→ SF308

Technical Data

Forging material : AISI304 - DIN 1.4301
Production : SF308 - Fing - Welded
Surface freatment : "E.R." (Electropolished)

Field of application

Lag bolts (with wide washer and nut) are designed for screw into all types of panels for different applications. Fings are all made by TIG Argon welding.

Note:⁽¹⁾See Note: E1 on page E1

Refer to page IV - dass Bload characteristics



SF3215

Technical Data

Forging material : AISI304 - DIN 1 4301
Production : SF3215 - Pad - We'ded
Surface treatment : "E.R." (Electropolished)

Field of application
Round pad bolts are designed for screw into all types of panels for different applications. Rings are all made by TIG Argon welding.

Note: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 8 load characteristics

Weterlat	\$\$304	(mm)	(mm)	(mm)	(mm)	(thread)	A STATE OF THE PARTY OF THE PAR	(kgs)
	4321-5005	5	5	33	20	P A 6	700	400
	4321-5006	6		40	23	PA8	450	500
	4321-5008	в		50	25	M10	250	1,000



Technical Data

Forging material : AISI304 - DIN 1 4 301 Production : SF3205 - Pad - Welded Surface freatment : "E.R." (Electropolished)

Field of application

Round pad bolts (with ring) are designed for screw into all types of panels for different applications. Fings are all made by TIG Argon welding.

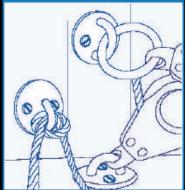
 $\mathbf{Note}^{(1)}$ See Note :E1 on page E1

Refer to plage IV - dlass 8 load characteristics

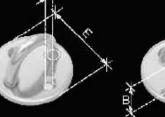
Meteral Materal	SF3205	SIZE	ØC	ØD	ØE (mm)	L	(thread)	13	B.L. ⁽¹⁾
	\$53.04	(mm)	(mm)	(mm)	(min)	(mm)	(milean)	No.	(kgs)
	4320-5005	5	30	5	33	20	M6	500	400
	4320-5006	6	40	6	40	23	MAS	300	500
	4320-5008	8	50	В	50	25	PATO	125	1,000

















SF3214H Round pad - hook type

Round pad (with ring)

rtem.no. ntaerra	SF3214 55304	SIZE (mm)	Ø D (mm)	Ø E (mm)	Ø 5 (mm)	M (thread)	9	B.L. ⁽¹⁾ (kgs)
	4321-4005	5	5	33	4.5	M16	1,200	700
	4321-4006	6		40	4.5	MB	600	1,000
	1321-1008	8	В	50	5.5	M10	300	1,600

____ SF3214

Technical Data

Forging material : AISI304 - DIN 1,4201 Production : SF2214 - Pad - Welded Surface treatment : "E.P." (Electro-poliched)

Bound pad botts are designed for screw into all types of panels for different applications. Pads are all made by TIG Argon welding.

Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 14 load characteristics



SF3214H

Forging material : AISISM - DIN 1 #201 Production : SF3214H - Rad - Welded Surface treatment : "E.R." [Bedro polished]

Field of application

Pound pads - hook type are designed for screw into all types of panels for different applications. Fads are all made by TIG Argon welding.

Not e:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 14 load characteristics

SF3214H SS304	SIZE (mm)	B (mm)	Ø D (mm)	ØE (mm)	Ø S (mm)	智	8.L. ⁽¹⁾ (kgs)
4321-4005	5	В	5	33	4.5	1,200	200
4321-4006	6	12	6	40	4.5	700	220
4321-4008	8	14	8	50	5.5	300	250
	\$\$304 4321-4005 4321-4006	SS304 (mm) 4321-4005 5 4321-4006 6	SS304 (mm) (mm) 4327-4005 5 8 4327-4006 6 12	SS304 (mm) (mm) (mm) 4321-4005 5 8 5 4321-4006 6 12 6	SS304 (mm) (mm) (mm) (mm) 4321-4005 5 8 5 33 4321-4006 6 12 6 40	SS304 (mm) (mm) (mm) (mm) (mm) 4321-4005 5 8 5 33 4.5 4321-4006 6 12 6 40 4.5	SS304 (mm) (mm) (mm) (mm) (mm) 4321-4005 5 8 5 33 4.5 1,200 4321-4006 6 12 6 40 4.5 700

Technical Data

Forging material : AISI304 - DIN 1.4301 Surface treatment : "E.P." [Ble dro polished]

Field of application

Found pads with ring) are designed for screw into all types of panels for different applications. Pads are all made by TIG Argon welding.

Note:⁽²⁾ See Note :E1 on page E1

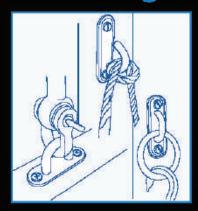
Refer to page IV - dass 14 load characteristics

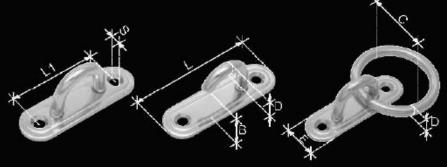
dem no Maria	SF3204 88304	SIZE (mm)	ØC (mm)	ØD (mm)	ØE (mm)	Ø S (m m)	4	B.L. ⁽²⁾ (kgs)
	4320-4005	5	30	5	33	4.5	600	700
	4320-4006	6	40	6	40	4.5	300	1,000
	4320-4008	8	50	8	50	5.5	150	1,600













SF3212

SF3212H Oblong pad - hook type





SF3212

Technical Data

Forging material : AI 51304 - DIN 1 A 201 Production : SF 3212 - Pad - Welded Surface treatment : "E.R." | Electro polished |

Field of application

Oblong plads are designed for screw into all types of panels for different applications. Pads are all made by TIG Argon welding.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page (V - dess 14 load characteristics



SF3212H

Technical Data

Forging material + AISI304 - DIN 1.4301 Production : SF3212H - Pad - Welded Surface treatment : "E.R" | Electro polished

Field of application

Oblong plack - hook type are designed for screw into all types of panels for different applications. Pads are all made by TIG Argon welding.

 $\begin{tabular}{ll} \textbf{Note}(0) & \textbf{Standard safety factor for working load} \\ & \textbf{is } 1/4 & \textbf{of breaking load}. \\ \end{tabular}$

Refer to page IV - dass 14 load characteristics

100100	\$\$304	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4321-2005	5	16	54	38	5,0	1,200	700
	4321-2006	6	19	65	46	5.6	500	1,000
	4321-2008	8	25	81	56	6.5	200	1,600
	4321-2009	10	32	100	73	6.5	200	1,700

Remno. Malertel	SF3212H 95304	SIZE (mm)	B (mm)	D (mm)	L (mm)	LT (mm)	Ø S (mm)	18	B.L. ⁽¹⁾ (kgs)
	4321-2105	5	8	5	.54	38	5.0	1,000	200
	4321-2106	6	12		65	46	5.6	800	220
	4321-2108	8	14	8	81	56	6.5	300	250
	4321-2109	10	16		100	73	6.5	200	280



Technical Data
Forging material : AUSS04 - DIN 1/4301
Froduction : SF3202 - Rad - Welded
Surface treatment : "E.R." | Electro polished |

Field of application

Oblong pads (with ring) are designed for screw into all types of panels for different applications. Pads are all made by TIG Argon welding.

Note: (2) See Note: E1 on page E1

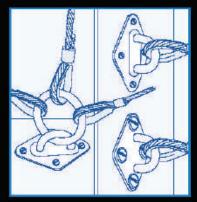
Refer to page IV - dass 14 load characteristics

temno. statemi	SF3202	SIZE (mm)	ØC (mm)	ØD (mm)	E (mm)	L (mm)	ØS (mm)	够	8.L. ⁽²⁾ (kgs)
	. 5550-1	Carrier .	product.	1142314 2	District Control	Territoria.	- Contract		1,03-1
	4320-2005	5	30	5	16	54	5.0	500	700
	4320-2006	6	40		19	65	5.6	350	1,000
	4320-2008	8	50	8	25	81	6.5	150	1,600
	4320-2009	9	60	9	32	100	6.5	100	1,900











SF3211

Technical Data

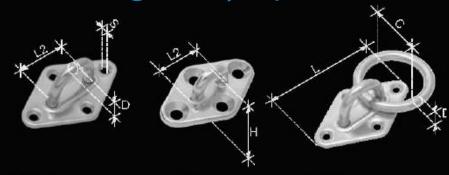
Forging material : AIS304-DIN114301 Production : SF3211-Pad-Welded Surfacetreatment : "E.P." (Electro polished)

Field of application

Diamond pads are designed for screw into all types of penels for different applications. Pads are all made by TIG Argon welding.

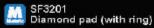
Note: 119 Standard safety factor for working load is 1,4 of breaking load

Refer to page IV - class 14 load characteristics









Materiel	SF3211	SIZE	ØD	L	L2	øs	(G)	B.L. ^[10]
	\$5304	(mm)	(mm)	(mm)	(mm)	(mm)	The same	(kgs)
	4321-1005	5	5	59	15	4.1	500	700
	4321-1006	6	6	64	19	4.1	400	1,000
	4321-7008	8	8	80	23	5.1	250	1,600



S3213

Technical Data

Production : AIS 304 - DIN 1.4308 Production : S22 13 - Pad - Cast Surfacetreetment : "E.P." (Electro polished)

Field of application
Diamond cast pads are designed for screw into all types of panels for different applications. Casting padere thicker and stronger than standard diamond pads.

Note. Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 14 load characteristics

Person Pater of	S3213 SS304	SIZE (inch)	H (mm)	L (mm)	L2 (mm)	ØS (mm)	7	B.L. ⁽¹⁾ (kgs)
	4321-3772	1.1/2"*2.1/2"	21.0	66	20	8,0	500	2,200
	4321-3231	2"*3.1/8"	27,5	8.0	16	8.0	180	3,500
	4321-3214	2.1/4"53.1/2"	29.0	89	22	8,5	125	4,000
	4321-3238	2.3/8'**4"	35.0	100	25	8.5	125	6,000



Technical Data

Forging material | AIS304 - DIN 1 4341 Production | SF3201 - Pad - Welded Surface treatment | "E.R." (Electro polished)

Field of application

Diamond pads (with ring) are designed for screw into all types of panels for different applications. Pads are all made by TIG Argon welding.

Note:(2) See Note:E1 on page E1

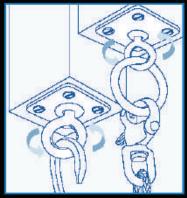
Refer to page IV - dass 14 load characteristics

Pater tel	SF3201 SS304	SIZE (inch)	ØC (mm)	ØD (mm)	L (mm)	L2 (mm)	ØS (mm)	9	B.L. ⁽¹²⁾ (kgs)
	4320-1005	5	30	5	59:	15	4.1	500	700
	4320-1006	6	.35	6	64	19	4.1	300	1,000
	4320-7008	8	45	8	BO	23	5.1	150	1,600



□PI Rings & Eye plates







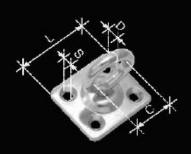
SF3216, SF3206

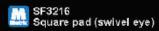
Technical Data

AISI304-DIN 1:4301 Production SF 2216 - Ring - Welded SF3206 - Ring - Welded Surface treatment : "E.R." (Electro polished)

Field of application

Square pads (swivel eye) and Square pads (swivel eye with ring) are designed for screw into all types of panels for different applications. Pads are all made by TIG Argon welding.



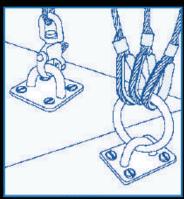




SF3206 Square pad (swivel eye with ring)

Nemno Mesmi	SF3216 SS304	SIZE (mm)	Ø ⊂ (mm)	ØD (mm)	L (mm)	Ø 5 (mm)	*	8.L. ⁽¹⁾ (kgs)
	4321-6005	5	15	5	35	4.2	500	450
	4321-6006	6	18	6	40	4.2	350	700
	4321-6008	8	19	8	50	5.2	300	850
Romino. Malacial	SF3206 ss304	SIZE (mm)	ØC (mm)	ØD (mm)	L (mm)	Ø 5 (mm)	*	B.L. ⁽⁹⁾ (kgs)
	4320-6005	5	30	5	35	4,2	350	450
	4320-6006	6	40	6	40	4.2	250	700
	4320-6008	8	50	8	50	5.2	130	850

Note:(2) See Note:E1 on page E1





SF321, SF320

Technical Data Forging material Production Technical Data
Forging material: 4.81304-DIN 1.4301
Production: \$F321-Pad-Welded
\$F320-Pad-Welded
Surface treatment: "E.R." (Electropolished)

Square pads and Square pods (with ring) are designed for screw into all types of panels for different applications. Pads are all made by IIGArgon welding.

Note: 13 Standards aleby factor for working load is 1/4 of breaking load.

Refer to page IV - class 14 load characteristics







SF320 Square pad (with ring)

Merrono.	SF321	SIZE	В	øD	L	øs	C	B.L. ⁽¹⁾
Meterial	55304	(mm)	(mm)	(mm)	(mm)	(m m)		(kgs)
	4321-0005	5	30	5	34	4.1	850	700
	4321-0006	6	34	6	40	4.1	500	1,000
	4321-0008	8	39	8	50	5.3	250	1,600

Marchi	SF320 55304	SIZE (mm)	B (mm)	ØC (mm)	ØD (mm)	L (mm)	Ø 5 (mm)	1	8.L. ⁽²⁾ (kgs)
	4320-0005	5	30	30	5	34	4.1	600	700
	4320-0006	6	34	35	6	40	4.1	300	1,000
	4320-0008	8	39	45	8	50	5.3	125	1,600

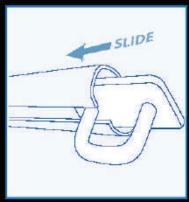
Note:(2) See Note:E1 on page E1









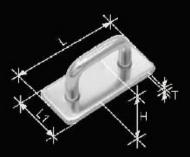


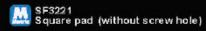


SF3221

Technical Data
Forging material : AISI316 - DINT A401
Production : \$52221 - Pad - Welded
Surface treatment : "E.R." (Electropolishes)

Field of application
Square pack (without screw hole) are designed for slide into speedal panels or welding onto panels.
Fads are all made by TIG Argon welding.



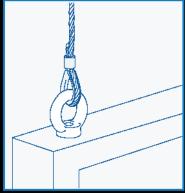


rtem no Material	SF3221 55316	SIZE (mm)	H (mm)	L (mm)	L1 (mm)	T (mm)	-
	6322-1154	15*42	12	42	15	3	1,000
	6322-1174	17*42	12	42	17	3	1.000
	6322-1194	19*42	12	42	19	3	900
	6322-1234	23*42	12	42	23	3	800
	6322-1305	30*50	14	50	30	4	500



□PI U-bolts & Eye Bolt





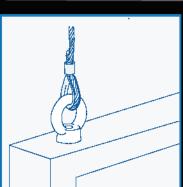


O S582

Casting material : AISI316 - DIN 1.4408
Production : 5582 - Nut - Cast
Surface treatment : "E.P." (Electro polished)

Field of application
Eye nuts are designed for screw into all types of threaded studs for different applications.







S3061

Technical Data
Casting material : AISI304 - DIN 1 4308
AISI316 - DIN 1 4408
Production : S3061 - Nut - Cast
Surface treatment : "E.P." (Electro polished)

Field of application
Lifting eye nuts - SUS type are designed for screw into all types of threaded rods, specially designed for lifting of objects.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page M - dass 15 load characteristics







item no. Material	\$582 \$\$316	SIZE (mm/inch)	ØC (mm)	ØD (mm)	L (mm)	(thread)	1	B.L. ⁽¹⁾ (kgs)
	6582-0006	6	15	6	27	M6	1,500	1,300
	6582-0008	8	20	8	36	8M	600	2,200
	6582-0010	10	25	10	45	M10	400	2,600
	6582-0012	12	30	12	53	M12	200	4,900
	6582-0016	16	35	14	63	M16	100	7,000
	6582-0020	20	40	16	72	M20	75	10,000
	6582-0024	24	50	20	90	M24	50	18,000
	6582-0030	30	60	24	108	M30	20	22,000
	6582-0036	36	70	28	126	M36	10	34,000
	6582-0104	1/4"	15	6	27	1/4"	1,500	1,300
	6582-0516	5/16"	20	8	36	5/16"	400	2,200
	6582-0308	3/8"	25	10	45	3/8"	600	2,600
	6582-0102	1/2" UNC	30	12	53	1/2"UNC	200	4,900
	6582-0508	5/8"	35	14	63	5/8"	100	7,000
	6582-0304	3/4"	40	16	72	3/4"	75	10,000
	6582-0001	1"	50	20	90	1"	40	18,000



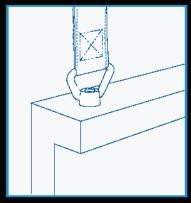


S3061 Lifting eye nut - SUS type

	S3061	SIZE	øС	ØD	L	M	43	B.L. ^[1]
SS304	1 SS316	(mm/inch)	(mm)	(mm)	(m m)	(thread)		(kgs)
4306-10	006 6306-1006	6	16	5.0	31.0	M6	1,500	1,100
4306-10	008 6306-1008	8	20	6.2	39.3	M8	1,000	1,300
4306-10	010 6306-1010	10	25	8.0	48.0	M10	500	2,600
4306-10	912 6306-1012	12	30	10.0	61.0	M12	250	3,500
4306-10	016 6306-1016	16	35	12.5	72.0	M16	125	8,000
4306-10	020 6306-1020	20	40	16.0	86.0	M20	50	10,500
4306-12	220 6306-1220	22	46	19.0	107.0	M22	40	11,000
4306-10	930 6306-1030	30	60	25.0	135.0	M30	20	20,000
4306-11	1 <i>0</i> 4 6306-1104	1/4"	16	5.0	31.0	1/4"	1,500	1,200
4306-15			20	6.2	39.3	5/16"UNC		1,300
4306-13	3 <i>0</i> 8 6306-1308	3/8" UNC	25	8.0	48.0	3/8"UNC	500	2,600
4306-11	102 6306-1102	1/2"	30	10.0	61.0	1/2"	200	3,500
4306-15	508 6306-1508	5/8" UNC	35	12.5	72.0	5/8"UNC	125	8,000
4306-13	3 <i>0</i> 4 6306-1304	3/4" UNC	40	16.0	86.0	3/4"UNC	75	10,500
4306-11	101 6306-1101	1"	50	20.0	111.0	1"	30	14,450



U-bolts & Eye Bolt





S80704

Technical Data

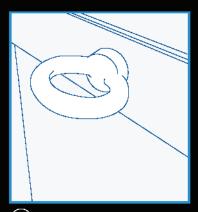
Casting material : AISI316 - DIN 1.4408
Production : S80704 - Nut - Cast
Surface treatment : "E.P." (Electro polished)

Field of application

Rectangular eye nuts are designed for screw into all types of threaded rods, specially designed for lifting of objects with knitting of leather or synthetic strap.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 16 load characteristics





Technical Data

Casting material : AISI316 - DIN 1.4408
Forging material : AISI316 - DIN 1.4401
Production : S580 - Thread - Forged Bolt - Cast
Surface treatment : "E.P." (Electro polished)

Field of application
Eye bolts - AISI type are designed for screw into all types of panels for different applications. Threaded rod are TIG Argon welded to the casting eye.

Note: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 15 load characteristics





Rectangular eye nut

item no. Material	\$80704 \$8316	SIZE (mm)	C (mm)	ØD (mm)	L (mm)	M (thread)	13	B.L. ⁽¹⁾ (kgs)
	6807-0408	8	32	6.5	36.5	M8	600	2,200
	6807-0410	10	42	8.0	45.0	M10	400	3,600
	6807-0412	12	48	10.0	52.0	M12	200	4,300



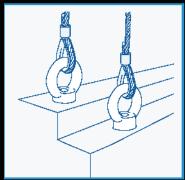


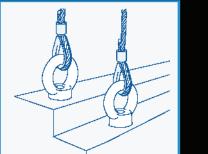
S580 Eye bolt - AISI type

item no. Material	\$580 \$\$316	SIZE (mm/inch)	ØC (mm)	ØD (mm)	L (mm)	M (thread)	43	B.L. ^{[1)} (kgs)
	6580-0006	6	15	6	37	M6	1,200	1,300
	6580-0008	8	20	8	49	M8	500	2,000
	6580-0010	10	25	10	62	M10	300	2,600
	6580-0012	12	30	12	74	M12	150	4,900
	6580-0016	16	35	14	90	M16	100	7,000
	6580-0020	20	40	16	102	M20	70	10,000
	6580-0024	24	50	20	126	M24	30	15,000
	6580-0030	30	60	24	153	M30	15	20,000
	6580-0104	1/4"	15	6	37	1/4"	1,200	1,300
	6580-0516	5/16"	20	8	49	5/16"	500	2,000
	6580-0308	3/8"	25	10	62	3/8"	300	2,600
	6580-0102	1/2"	30	12	74	1/2"	150	4,900
	6580-0508	5/8"	35	14	90	5/8"	100	7,000
	6580-0001	1"	40	20	126	1"	30	15,000

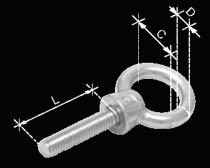
U-bolts & Eye Bolt



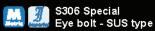


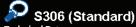












Technical Data Casting material

Field of application
Eye bolts - SUS type are longer and slender base than that of a standard bolt. Threaded rod are TIG Argon welded to the casting eye.

Material SS304	(Standard) SS316	SIZE (mm/inch)	ØC (mm)	Ø D (mm)	L (mm)	M (thread)	(3)	B.L. ^{[1)} (kgs)
4306-0006	6306-000	5 6	16.0	5.0	13.0	M6	1,500	1,100
4306-0008	6306-000	3 8	20.0	6.2	14.0	M8	800	1,800
4306-0010	6306-0010	10	24.5	8.0	18.0	M10	500	2,600
4306-0012	6306-001	2 12	30.0	10.0	21.5	M12	200	3,500
4306-0016	6306-001	16	35.0	12.5	26.5	M16	150	8,000
4306-0020	6306-002	20	39.5	15.5	29.5	M20	70	10,500
4306-0024	6306-0024	1 24	50.0	20.0	36.0	M24	30	14,550
4306-0104	6306-0104	1/4"	16.0	5.0	13.0	1/4"	1,500	1,100
4306-0516	6306-051	5 5/16"	20.0	6.2	14.0	5/16"	750	1,800
4306-0308	8 6306-030	3 3/8"	24.5	8.0	18.0	3/8"	400	2,600
4306-0102	6306-010	2 1/2"	30.0	10.0	21.5	1/2"	200	3,400
4306-0508	8 6306-050	3 5/8"	35.0	12.5	26.5	5/8"	125	8,000
4306-0304	6306-0304	3/4"	39.5	15.5	29.5	3/4"	70	10,500
4306-0100	6306-010	1"	50.0	20.0	35.0	1"	30	13,000



Technical Data Casting material
 Technical Data

 Casting material
 : AISI304 - DIN 1.4308/

 Forging material
 : AISI36 - DIN 1.4301/

 AISI316 - DIN 1.4301/
 AISI316 - DIN 1.4401

 Production
 : S306 (Special) - Thread - Forged Bolt - Cast

 Surface treatment
 : "E.R." (Electro polished)

Field of application
Eye bolts - SUS type are longer and slender base than that of a standard bolt. Threaded rod are TIG Argon welded to the casting eye.

Notes 11) Standard safety factor for working load is 1/4 of breaking load.

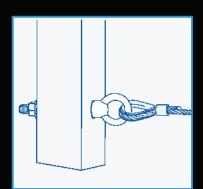
Refer to page IV - class 8 load characteristics

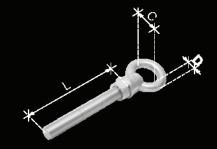


S306	(Special)	SIZE	ØС	ØD	L	M	5	B.L. ^[1]
SS304	SS316	(mm/inch)	(mm)	(mm)	(m m)	(thread)		(kgs)
4306-0638	6306-0638	06*38	16	5.0	38	M6	n/a	1,100
4306-0650	6306-0650	06*50	16	5.0	50	M6	1,000	1,100
4306-0850	6306-0850	08*50	20	6.2	50	M8	500	1,800
4306-1050	6306-1050	10*50	25	8.0	50	M10	250	2,600
4306-1250	6306-1250	12*50	30	10.0	50	M12	150	3,500
4306-1650	6306-1650	16*50	35	12.5	50	M16	100	8,000
4306-1615	6306-1615	16*150	35	12.5	150	M16	60	8,000
4306-2050	6306-2050	20*50	40	16.0	50	M20	50	10.500
4306-2080	6306-2080	20*80	40	16.0	80	M20	50	10,500
4306-2015	6306-2015	20*150	40	16.0	150	M20	30	10,500
4306-2215	6306-2215	22*150	46	19.0	150	M22	n/a	12,500
4306-2450	6306-2450	24*50	50	20.0	50	M24	30	14,550
4306-2415	6306-2415	24*150	50	20.0	150	M24	n/a	14,550
4306-4122	6306-4122	1/4"*2"	16	5.0	2"	1/4"	1,000	1,100
4306-5162	6306-5162	5/16"*2"	20	6.2	2"	5/16"	500	1,800
4306-8032	6306-3082	3/8"*2"	25	8.0	2"	3/8"	200	2,600
4306-3806	6306-3806	3/8"*6"	25	8.0	6"	3/8"	170	2,600
4306-2012	6306-2012	1/2"*2"	30	10.0	2"	1/2"	150	3,400
4306-2106	6306-2106	1/2"*6"	30	10.0	6"	1/2"	100	3,400
4306-5802	6306-5802	5/8"*2"	35	12.5	2"	5/8"	100	8,000
4306-8506	6306-8506	5/8"*6"	35	12.5	6"	5/8"	60	8,000
4306-4306	6306-4306	3/4"*6"	40	16.0	6"	3/4"	45	10,500
4306-3042	6306-3042	3/4"*2"	40	16.0	2"	3/4"	50	10,500
4306-8706	6306-8706	7/8"*6"	46	19.0	6"	7/8"	20	12,500
4306-0106	6306-0106	1"*6"	50	20.0	6"	1"	15	13,000



U-bolts & Eye Bolt P







S307
Lifting eye bolt (with washer and nut)



Technical Data
Casting material : AISI304 - DIN 1.4308/
AISI316 - DIN 1.4408
Forging material : AISI304 - DIN 1.4301/
AISI316 - DIN 1.4301/
AISI316 - DIN 1.4401
Production : S307 - Thread - Forged
Bolt - Cast
Surface treatment : "E.R." (Electro polished)

Field of application
Lifting eye bolt (with washer and nut) for better
gripping during assembly. Threaded rod are TIG
Argon welded to the casting eye.

Not e: (1) Standard safety factor for working load is 1/4 of breaking load.

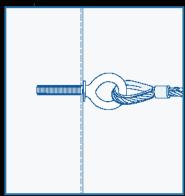
Refer to page IV - class 8 load characteristics



itemno.	307	SIZE	ØC	ØD	L	430	B.L. ^{[1)}
Material SS304	SS316	(mm/inch)	(mm)	(mm)	(mm)	1	(kgs)
4307-0640	6307-0640	06040	16	5.0	40	1,000	1,100
4307-0660	6307-0660	06060	16	5.0	60	800	1,100
4307-0680	6307-0680	06080	16	5.0	80	600	1,100
4307-0610	6307-0610	06100	16	5.0	100	600	1,100
4307-0828	6307-0828	08028	20	6.2	28	500	1,300
4307-0838	6307-0838	08038	20	6.2	38	400	1,300
4307-0860	6307-0860	08060	20	6.2	60	350	1,300
4307-0864	6307-0864	08064	20	6.2	64	300	1,300
4307-0880	6307-0880	08080	20	6.2	80	350	1,300
4307-0810	6307-0810	08100	20	6.2	100	250	1,300
4307-0812 4307-1005	6307-0812 6307-1005	08120 10050	20 25	6.2 8.0	120 50	300 750	1,300 7,600
4307-1005 4307-1080	6307-1005 6307-1080	10050	25 25	8.0 8.0	50 80	250 200	2,600 7,600
4307-1080 4307-1010	6307-1080 6307-1010	10080 10100	25 25	8.0 8.0	80 100	200 150	2,600 2,600
4307-1010 4307-1012	6307-1010 6307-1012	10100 10120	25 25	8.0 8.0	100 120	150 150	2,600 2,600
4307-1012 4307-1014	6307-1012 6307-1014	10120 10140	25 25	8.0 8.0	120 140	150 175	2,600 2,600
4307-1014 4307-1016	6307-1014	10140	25 25	8.0 8.0	140 160	175 150	2,600 2,600
4307-1016 4307-1020	6307-1016	10160	25 25	8.0 8.0	200	125	2,600 2,600
4307-1020	6307-1020	12100	30	8.0 10.0	200 100	100	2,600 3,500
4307-1210	6307-1210	12120	30	10.0	120	100	3,500 3,500
4307-1214	6307-1212	12140	30	10.0	140	75	3,500
4307-2100	6307-2100	12150	30	10.0	150	70	3,500
4307-1216	6307-1216	12160	30	10.0	160	80	3,500
4307-1217	6307-1217	12165	30	10.0	165	80	3,500
4307-1218	6307-1218	12180	30	10.0	180	70	3,500
4307-1220	6307-1220	12200	30	10.0	200	60	3,500
4307-1675	6307-1675	16075	35	12.5	75	75	8,000
4307-1610	6307-1670	16100	35	12.5	100	80	8,000
4307-1615	6307-1615	16150	35	12.5	150	70	8,000
4307-4140	6307-4140	1/4"*40	16	5.0	40	800	1,100
4307-4150	6307-4150	1/4"*50	16 16	5.0	50 60	700	1,100
4307-4160 4207-4180	6307-4160	1/4"*60 1/4"*80	16 16	5.0 5.0	60 80	600 600	1,100 1 100
4307-4180 4307-4011	6307-4180	1/4"*80 1/4"*100	16 16	5.0 5.0	80 100	600 600	1,100 1 100
4307-4011 4307-5660	6307-4011 6307-5660	1/4"*100 5/16"*60	16 20	5.0 6.7	100 60	600 500	1,100 1 300
4307-5660 4307-5680	6307-5660 6307-5680	5/16"*60 5/16"*80	20 20	6.2 6.2	60 80	500 400	1,300 1,300
4307-5680 4307-5610	6307-5680	5/16"*80 5/16"*100	20	6.2 6.2	80 100	400 250	1,300
4307-5610 4307-5012	6307-5610	5/16"*100 5/16"*120	20	6.2 6.2	120	250 300	1,300
4307-3012	6307-8345	3/8"*45	25	8.0	45	300 250	7,300 2,600
4307-8380 4307-8380	6307-8380	3/8"*80	25	8.0	43 80	200	2,600 2,600
4307-8310	6307-8310	3/8"*100	25	8.0	100	175	2,600
4307-8312	6307-8312	3/8"*120	25	8.0	120	150	2,600
4307-8313	6307-8313	3/8"*125	25	8.0	125	150	2,600
4307-8314	6307-8314	3/8"*140	25	8.0	140	125	2,600
4307-2145	6307-1245	1/2"*45	30	10.0	45	150	3,500
4307-2150	6307-2166	1/2""*50	30	10.0	50	120	3,500
4307-2166	6307-2165	1/2"*60	30	10.0	60	120	3,500
4307-2180	6307-2180	1/2"*80	30	10.0	80	100	3,500
4307-2110	6307-2110	1/2"*100	30	10.0	100	100	3,500
4307-2112	6307-2112	1/2"*120	30	10.0	120	100	3,500
4307-2114	6307-2114	1/2"*140	30 30	10.0	140	75 75	3,500
4307-2115	6307-2115	1/2"*150	30 30	10.0	150	75 75	3,500
4307-1270	6307-1270	12170	30 30	10.0	170 220	75 50	3,500
4307-1222 4207-2015	6307-1222	12220	30 40	10.0 16.0	220 150	50 25	3,500
4307-2015 4307-2415	6307-2015	20150	40 50	16.0 70.0	150 150	35 75	10,500 14,550
4307-2415	6307-2415	24150	50	20.0	150	25	14,550

U-bolts & Eye Bolt







Н SF3191

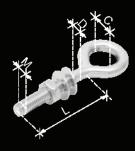
Technical Data
Forging material : AISI304 - DIN 1.4301/
AISI316 - DIN 1.4401
Production : SF3191 - Bolt - Welded
Surface treatment : "E.P." (Electro polished)

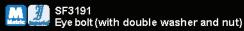
Field of application
Eye bolts (with double washer and nut) are designed for assembly onto a flat panel and serve as a pulling

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 8 load characteristics

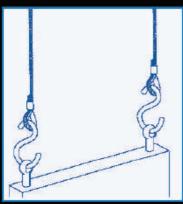


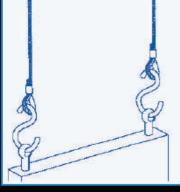




item no.	SF3	3191	SIZE	øс	ØD	L	M	4	B.L. ^{[1)}
Material	SS304	SS316	(mm/inch)	(mm)	(mm)	(m m)	(thread)	1	(kgs)
43	319-1550	6319-1550	5*50	11	4.40	50	M5	1,500	600
	319-1640	6319-1640	6*40	13	5.25	40	M6	1,000	1,000
	319-1655	6319-1655	6*55	13	5.25	55	M6	800	1,000
	319-1660	6319-1660	6*60	13	5.25	60	M6	1,000	1,000
	319-1680	6319-1680	6*80	13	5.25	80	M6	600	1,000
	319-1610	6319-1610	6*100	13	5.25	100	M6	700	1,000
	319-6125	6319-6125	6*125	13	5.25	125	M6	500	1,000
	319-1616	6319-1616	6*160	13	5.25	160	M6	400	1,000
	319-1835	6319-1835	8*35	17	7.00	35	M8	800	1,800
	319-1860	6319-1860	8*60	17	7.00	60	M8	500	1,800
	319-1880	6319-1880	8*80	17	7.00	80	M8	500	1,800
	319-1810	6319-1810	8*100	17	7.00	100	M8	250	1,800
	319-1811	6319-1811	8*110	17	7.00	110	M8	300	1,800
	319-1812	6319-1812	8*120	17	7.00	120	M8	350	1,800
	319-1888	6319-1888	8*125	17	7.00	125	M8	250	1,800
	319-1813	6319-1813	8*130	17	7.00	130	M8	250	1,800
	319-1815	6319-1815	8*150	17	7.00	150	M8	250	1,800
	319-1150	6319-1150	10*50	21	8.80	50	M10	250	2,400
	319-1106	6319-1106	10*60	21	8.80	60	M10	200	2,400
	319-1107	6319-1107	10*80	21	8.80	80	M10	250	2,400
	319-1101	6319-1101	10*100	21	8.80	100	M10	250	2,400
	319-1102	6319-1102	10*120	21	8.80	120	M10	200	2,400
	319-1103	6319-1103	10*130	21	8.80	130	M10	150	2,400
	319-1114	6319-1114	10*140	21	8.80	140	M10	200	2,400
	319-1104	6319-1104	10*150	21	8.80	150	M10	200	2,400
	319-1112	6319-1112	10*200	21	8.80	200	M10	150	2,400
	319-1126	6319-1126	12*80	25	10.70	80	M12	100	3,500
	319-1121	6319-1121	12*100	25	10.70	100	M12	125	3,500
	319-1122	6319-1122	12*120	25	10.70	120	M12	100	3,500
	319-1123	6319-1123	12*140	25	10.70	140	M12	125	3,500
	319-1124	6319-1124	12*150	25	10.70	150	M12	100	3,500
	319-2185	6319-1185	12*185	25	10.70	185	M12	100	3,500
	319-1165	6319-1615	16*150	18	14.45	150	M16	75	7,500
	319-1416	6319-1416	1/4"*60	13	5.40	60	1/4"	1,000	1,000
	319-1511	6319-1511	5/16"*100	17	6.94	100	5/16"	250	1,800
	319-1831	6319-1831	3/8"*3-1/8"	21	8.40	80	3/8"	250	2,400
	319-1832		3/8"*3-3/16"	21	8.40	81	3/8"	250	2,400
	319-1381	6319-1381	3/8"*100	21	8.40	100	3/8"	250	2,400
	319-1214	6319-1214	1/2"*4"	25	11.24	101	1/2"	100	3,500
43	319-1212	6319-1212	1/2"*120	25	11.24	120	1/2"	100	3,500



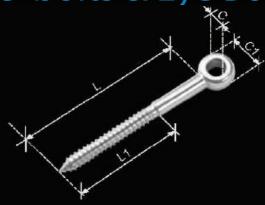






Technical Data
Forging material | AISI316 - DIN 1,4401
Production | SF3182 - Bull - Forged
Surfacetrestment | "E.R." (Electro polished

Field of application
Eye botts (wooden screw) are designed for screw into wooden panels for lifting purposes.



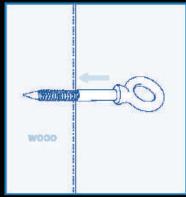
SF3182 Eye bolt (wooden screw)

Motorial	SF3182 SS316	SIZE (mm/inch)	ØC (mm)	Ø C1 (mm)	L (mm)	L1 (MM)	8
16	2318-2445	4*45	4.2	7.3	45	30	5,000
E	2318-2555	5*55	5.2	12.0	55	40	n/a
E	2318-2560	5*60	5.2	12.0	60	50	n/a
F	2318-2640	6*40	6.2	14.0	40	28	1,500
E	2318-2645	6*45	6.2	14.0	45	30	n/a
16	2318-2650	6*50	6,2	14.0	50	33	n/a
E	2318-2655	6*55	6.2	14.0	55	36	1,300
	2318-2660	6*60	6.2	14.0	60	40	1,700
16	2318-2680	6*80	6.2	14.0	80	55	1,000
IE	2318-2860	8*60	8.2	18.0	60	40	7,000
	2318-2875	8*75	8.2	18.0	75	50	800
100	2318-2880	6*80	8,2	18.0	80	55	500
Œ	2318-2810	8*100	8.2	18.0	100	65	n/a
16	2318-2175	10*75	10.3	20,0	75	50	n/a
F	2318-2180	10780	10.3	20.0	80	55	500
Œ	2318-2110	10*100	10.3	20.0	100	65	350
18	2318-2112	10*120	10.3	20.0	120	80	n/a
E	2318-2127	12×100	12.3	24.5	100	65	300
100	2318-2122	12*120	12.3	24.5	120	80	250



U-bolts & Eye Bolt

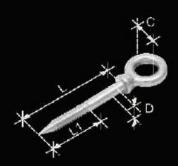


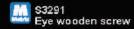




Technical Data Casting material : AISI316 - DIN 1,4408
Production : S3291 - Screw - Cast
Surface treatment : "E.R." (Electro polished)

Field of application Eye wooden sowns are designed for sown into wooden panels for lifting purposes. The large eye profile allows easy gripping.



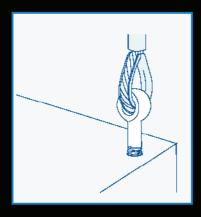


Personal	S3291 88316	SIZE (mm)	Ø C (mm)	ØD (mm)	L (mm)	L1 (mm)	6
	6329-1550	5*50	11	5	50	30	1,000
	6329-1560	5*60	11		60	36	1,000
	6329-1640	6×40	14	6	40	24	1,000
	6329-1660	6*60	14	6	60	36	700
	6329-1680	6*80	14		80	48	800
	6329-1610	6*100	14	6	100	60	600
	6329-1860	8*60	18	8	60	36	500
	6329-1880	8*80	18	8	80	48	350
	6329-1810	8*100	18	8	100	60	300
	6329-1812	8*120	18	8	120	72	300
	6329-1160	10*60	22	10	60	36	250
	6329-1180	10*80	22	10	80	48	200
	6329-1110	10*100	22	10	100	60	200
	6329-1112	10×120	22	10	120	72	200
	6329-1280	12*80	27	12	80	48	150
	6329-1210	12*100	27	12	100	60	125
	6329-1212	12*120	27	12	120	72	100
	6329-1214	12*140	27	12	140	84	100
	6329-1216	12*160	27	12	160	96	85





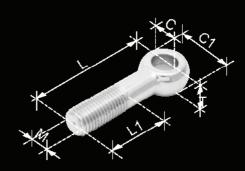
U-bolts & Eye Bolt P

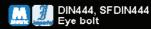


DIN444, SFDIN444
Technical Data
Casting material : AISI316 - DIN 1
Production : DIN444 - Bolt Production : AISI316 - DIN 1.4408
Production : DIN444 - Bolt - Cast
SFDIN444 - Bolt - Forged
Surface treatment : "E.P." (Electro polished)

Field of application
Eye bolts are designed for screw into internal thread holes for lifting purposes.







item no.	DIN444	SIZE	øc	ø	L	L1	м	т	F
Material	SS316	(mm/inch)	(m m)	(mm)	(mm)	(mm)	(thread)	(m m)	
	6444-1011	10*110	10.1	20	110	65	M10	12	300
	6444-1012	10*120	10.1	20 20	120	73 72	M10	12	350 350
temno.	6444-3812	3/8"*120	10.1	20	120	73	3/8"	12	350
Material	SFDIN444	SIZE	øc	ø C1	L	L1	M	T	43
Material	SS316	(mm)	(mm)	(mm)	(mm)	(mm)	(thread)	(m m)	
	2444-0530	5*30	5.2	12	30	20	M5	6	4,000
	2444-0540	5*40	5.2	12	40	22	M5	6	4,000
	2444-0550 2444-0560	5*50 5*60	5.2 5.2	12 12	50 60	30 36	M5 M5	6 6	4,000 2,500
	2444-0525	6*25	5.2 6.2	14	25	15	M6	7	2,500
	2444-0635	6*35	6.2	14	35	18	M6	7	3,000
	2444-0640	6*40	6.2	14	40	22	M6	7	2,000
	2444-0645	6*45	6.2	14	45	25	M6	7	1,800
	2444-0650	6*50	6.2	14	50	30	M6	7	1,700
	2444-0660	6*60	6.2	14	60	36	M6	7	1,500
	2444-0670	6*70	6.2	14	70	42	M6	7	1,000
	2444-0675	6*75	6.2	14	75	46	M6	7	1,000
	2444-0680 2444-0825	6*80 8*25	6.2 8.2	14 18	80 25	50 15	M6 M8	7 9	1,000 1,200
	2444-0823	8*30	8.2	18	23 30	15	M8	9	1,200
	2444-0835	8*35	8.2	18	35	18	M8	9	1,200
	2444-8404	8*40	8.2	18	40	22	M8	9	1,200
	2444-0845	8*45	8.2	18	45	25	M8	9	1,200
	2444-0850	8*50	8.2	18	50	28	M8	9	1,000
	2444-0860	8*60	8.2	18	60	34	M8	9	1,000
	2444-0865	8*65	8.2	18	65	38	M8	9	800
	2444-0870	8*70	8.2	18	70	40	M8	9	700
	2444-0875 2444-0880	6*75 8*80	8.2 8.2	18 18	75 80	45 48	8M 8M	9 9	800 800
	2444-0880	8*100	8.2 8.2	18 18	80 100	46 60	1448 1448	9	600
	2444-8120	8*120	8.2	18	120	73	M8	9	300
	2444-1040	10*40	10.2	20	40	20	M10	12	900
	2444-1045	10*45	10.2	20	45	23	M10	12	800
	2444-1050	10*50	10.2	20	50	29	M10	12	750
	2444-1060	10*60	10.2	20	60	32	M10	12	600
	2444-1065	10*65	10.2	20	65	35	M10	12	600
	2444-1070	10*70 10*75	10.2 10.2	20 20	70 75	40 43	M10 M10	12 12	600 550
	2444-1075 2444-1080	10*75 10*80	10.2	20 20	75 80	43 46	M10 M10	12	550 500
	2444-1090	10*90	10.2	20	90	53	M10	12	450
	2444-1010	10*100	10.2	20	100	60	M10	12	400
	2444-1250	12*50	12.2	25	50	25	M12	14	400
	2444-1255	12*55	12.2	25	55	28	M12	14	400
	2444-1260	12*60	12.2	25	60	32	M12	14	400
	2444-1265	12*65	12.2	25	65 70	35	M12	14	400
	2444-1270	12*70	12.2	25 25	70 75	38 43	M12	14	n√a 200
	2444-1275 2444-1280	12*75 12*80	12.2 12.2	25 25	75 80	42 45	M12 M12	14 14	300 250
	2444-1290	12*90	12.2	25 25	90	4 3	M12	14	250 250
	2444-1210	12*100	12.2	25	100	58	M12	14	250
	2444-1211	12*110	12.2	25	110	65	M12	14	250
	2444-1212	12*120	12.2	25	120	72	M12	14	180
	2444-1213	12*130	12.2	25	130	78	M12	14	200
	2444-1214	12*140	12.2	25	140	85	M12	14	200
	2444-1215	12*150	12.2	25	150	92	M12	14	150
	2444-1217	12*160	12.2	25	160	95	M12	14	150

U-bolts & Eye Bolt





SFDIN444 Eye bolt (Continue from previous page)



Ø C1

øc

L1

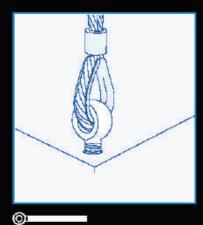
SFDIN444 SIZE



rial	SS316	(mm/inch)	(m m)	(mm)	(mm)	(mm)	(thread)	(mm)	
	2444-1660 2444-1670	16*60 16*70	16.2 16.2	32 32	60 70	30 35	M16 M16	17 17	150 150
	2444-1670 2444-1680	16*70	16.2	32 32	70 80	33 42	M16	17	150
	2444-1690 2444-1690	16*90	16.2	32	90	49	M16	17	150
	2444-1610	16*100	16.2	32	100	56	M16	17	150
2	2444-1611	16*110	16.2	32	110	62	M16	17	130
	2444-1612	16*120	16.2	32	120	70	M16	17	125
	2444-1613	16*130	16.2	32	130	75	M16	17	100
	2444-1614	16*140	16.2	32	140	82	M16	17	100
	2444-1615	16*150	16.2	32	150	90	M16	17	80
	2444-1616	16*160	16.2	32	160	96	M16	17	100
	2444-2070	20*70	18.2	40	70 75	30 35	M20	22 77	120
	2444-2075	20*75	18.2	40 40	75	35 40	M20	22 77	120 170
	2444-2080 2444-2090	20*80 20*90	18.2 18.7	40 40	80 90	40 47	M20 M20	22 77	120 100
	2444-2090 2444-2010	20*90 20*100	18.2 18.2	40 40	90 100	42 53	M20 M20	22 22	100 100
	2444-2010 2444-2011	20*100 20*110	18.2 18.2	40 40	100 110	53 60	M20 M20	22 22	100 80
	2444-2011 2444-2012	20*110 20*120	18.2 18.2	40 40	110	60 66	M20 M20	22 22	80 80
	2444-2012	20*120 20*130	18.2	40 40	130	66 76	M20	22	80 70
	2444-2014	20*130	18.2	40 40	140	70 80	M20	22	70 70
	2444-2015	20*150	18.2	40	150	86	M20	22	60
	2444-2016	20*160	18.2	40	160	93	M20	22	60
2	2444-2018	20*180	18.2	40	180	106	M20	22	60
2	2444-2020	20*200	18.2	40	200	120	M20	22	50
	2444-2480	24*80	22.2	45	80	38	M24	26	60
	2444-2490	24*90	22.2	45	90	42	M24	26	60
	2444-2410	24*100	22.2	45 45	100	50	M24	26	60
	2444-2411	24*110	22.2 22.2	45 45	110	54 65	M24 M24	26 26	55 50
	2444-2412	24*120 24*130	22.2 22.2	45 45	120	65 70	M24 M24	26 26	50 50
	2444-2413 2444-2414	24*130 24*140	22.2 22.2	45 45	130 140	70 80	M24 M24	26 26	50 50
	2444-2414 2444-2415	24*140 24*150	22.2 22.2	45 45	140 150	80 85	M24 M24	26 26	50 50
	2444-2415 2444-2416	24*150 24*160	22.2	45 45	160	90	M24	26 26	50 50
	2444-4180	24*180	22.2	45	180	105	M24	26	40
	2444-2420	24*200	22.2	45	200	118	M24	26	40
	2444-5640	5/16"*40	8.2	18	40	22	5/16"	9	1,400
	2444-5660	5/16"*60	8.2	18	60	34	5/16"	9	900
	2444-5680	5/16"*80	8.2	18	80	48	5/16"	9	800
		5/16"*100	8.2	18	100	60	5/16"	9	600
			8.2	18	120	73	5/16"	9	500
	2444-3840	3/8"*40	10.2	20	40	20	3/8" 2/9"	12	900
	2444-3860	3/8"*60 3/8"*80	10.2	20 20	60 80	32 46	3/8" 3/8"	12	650 500
	2444-3880 2444-8390	3/8"*80 3/8"*90	10.2 10.2	20 20	80 90	46 53	3/8" 3/8"	12 12	500 n/a
	2444-8390 2444-3810	3/8"*90 3/8"*100	10.2 10.2	20 20	90 100	53 60	3/8" 3/8"	12 12	n/a 400
	2444-3810 2444-2161	3/8"*100 1/2"*60	10.2	20 25	60	60 32	3/8 1/2"	12 14	400 375
	2444-2181 2444-2181	1/2"*80	12.2	25 25	80	32 45	1/2"	14 14	375 300
	2444-2110	1/2"*100	12.2	25 25	100	43 58	1/2"	14 14	250
	2444-2112	1/2"*120	12.2	25	120	72	1/2"	14	200
	2444-2114	1/2"*140	12.2	25	140	85	1/2"	14	200
ě	6444-5860	5/8"*60	16.2	32	60	30	5/8"	17	250
2	2444-5880	5/8"*80	16.2	32	80	42	5/8"	17	175
	2444-5810	5/8"*100	16.2	32	100	56	5/8"	17	135
	2444-5812	5/8"*120	16.2	32	120	70	5/8"	17	125
	2444-5814	5/8"*140	16.2	32	140	82	5/8"	17	125
	2444-3460	3/4"*60	18.2	40	60	26	3/4"	22	125
	2444-3480	3/4"*80	18.2	40	80	40	3/4"	22	100
	2444-3410	3/4"*100	18.2	40	100	53	3/4"	22	100
	2444-3412	3/4"*120 3/4"*140	18.2	40 40	120 140	66 90	3/4" 3/4"	22 22	75 70
	2444-3414	3/4"*140	18.2	40	140	80	3/4"	22	70



U-bolts & Eye Bolt P





SFDIN444FT Eye bolt (full thread)

SFDIN444FT

Technical Data

Casting material : AISS16 - DIN1 4408

Forging material : AISS16 - DIN1 4401

Froduction : SFDN444FT- Rait - Forged
Surface treatment : "E.R." Electro polithed)

Field of application
Eye bolts full thread) are heavy duty forging eye
bolts designed with longer threadlenght for heavy
load liftings.

lamna.	SFDIN444F	T SIZE	ØC	ØC1	L.	LI	М	400
Mariel	\$5316	(mm)	(mm)	(mm)	(m m)	(mm)	(thread)	1
	2444-2530	5*30	5,2	12	30	22	IA5	n/a
		5*40	5.2	12	40	31	MA5	n/a
F	Control of the Contro	5*50	5.2	12	50	42	1145	n/a
F		5*60	5.2	12	50	57	PA5	n/a
	2444-2612	6*19	6.2	14	19	1.0	146	4,000
F	2444-0625	6*25	6.2	14	25	1.5	146	3,000
F	2444-2635	6*35	6.2	14	35	25	DA6	n/a
F		6*40	6.2	14	40	30	NA6	n/a
F		6+45	6.2	14	45	3.5	PAG:	n/a
F	2444-2650	6*50	6.2	14	50	40	MO	n/a
F		6*60	6.2	14	60	50	146	1,500
F		6*70	6.2	14	70	60	PA6	2,000
F	2444-2675	6*75	6.2	14	75	65	146	D/B
F		6*80	6.2	14	80	70	NAG	n/a
F	2444-2830	8*30	8.2	18	30	20	PAS	n/a
F		8*35	8.2	18	35	25	SAN	n/a
13		8*40	8.2	1B	40	30	1A8	1,000
F	2444-2850	8*50	8.2	18	50	4.0	PAS	900
	2444-2860	8*60	8.2	18	50	50	NA8	D/B
F	2444-2865	8*65	8.2	1B	65	5.5	MAS	n/a
F	2444-2870	8*70	8.2	18	70	60	148	n/a
F	2444-2875	8*75	8.2	1B	75	6.5	148	n/a
F		8*80	8.2	18	80	7.0	PAR	700
F	2444-2810	8*100	8.2	18	100	90	PAS	500
1	2444-2812	8*120	8.2	18	120	110	148	D√B
F	2444-2140	10*40	10.2	20	40	30	M10	n/a
F	2444-2145	10*45	10.2	20	45	35	0A10	n/a
F	2444-2150	10*50	10.2	20	50	40	0A10	750
F	2444-2160	10+60	10.2	20	60	50	PARTO	n/a
	2444-2170	10*70	10.2	20	70	60	0.41.0	D/a
	2444-2175	10*75	10.2	20	75	6.5	BATO	D/B
F		10*80	10.2	20	80	7.0	8A10	n/a
E	2444-2190	10*90	10.2	20	90	80	9A10	n/a
F	2444-2100	10*100	10.2	20	100	90	0A10	r√a
F	2444-2111	10*110	10.2	20	110	100	W10	n/a
F	2444-2120	10*120	10.2	20	120	11.0	0.41.0	n/a
F	2444-2250	12*50	12.2	25	50	35	W12	n/a



U-bolts & Eye Bolt











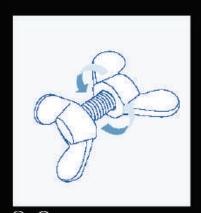


Technical Data
Castingmaterial : AI9316 - DIN 1.4408
Production : DIN315 - Nut - Cast
Surface treatment : "E.P." (Electro politihed)

Wing nuts are designed for screw onto external thread rods for tightening of a surface panels.



Patersi	DIN315 SS316	SIZE (mm/inch)	H (mm)	M (thread)	T (mm)	100
	6331-5004	M4	9.5	7/44	4	2,500
	6331-5005	M5	12.0	M5	6	5,000
	6331-5006	MG	16.0	M6	8	3,000
	6331-5008	M8	20.0	M8	1.0	1,500
	6331-5010	MIO	25.0	MIO	12	800
	6331-5012	M12	32.0	M12	14	400
	6331-5016	M16	36.0	M16	16	300
	6331-5020	M20	45.0	M20	20	120
	6331-5024	M24	56.0	N/24	24	70
	6331-5316	3/16"	12.0	3/16"	6	5,000
	6331-5104	1/4"	16.0	1/4"	8	3000
	6331-5516	5/16"	20.0	5/16"	10	1500
	6331-5308	3/8"	25.0	3/8"	12	800
	6331-5102	1/2"	32.0	1/2"	14	400
	6331-5508	5/8"	36.0	5/8"	16	300
	6331-5304	3/4"	45.0	3/4"	20	120
	6331-5001	1"	56.0		24	70









DIN 316 Wing bolt



Formical Data
Casting material : AISIS16 - D.N.1.4208
Forging material : AISIS16 - D.N.1.4201
Production : DINS16 - Thread - Forged
Surfacetreatment : "E.P." (Electropolished)

Field of application

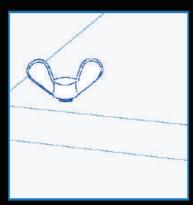
Wing bolts are designed for screwinto internal threadh oles for tightening of a surface panels.



itemne. Pitteral	DIN316 88316	SIZE (mm/inch)	H (mm)	L (mm)	M (thread)	T (mm)	4
	6316-0210	5*10	12	10	M5	6	3,200
	6316-0515	5*15	12	15	MS		3,000
	6316-0520	5*20	12	20	MS		2,500
	6316-0525	5*25	12	25	PAS		2,500
	6316-0530	5*30	12	30	MS		3,000
	6316-0535	5*35	12	35	PAS		2,000
	6316-0616	6*16	16	16	M6	8	2,000
	6316-0620	6*20	16	20	Mő	8	2,000



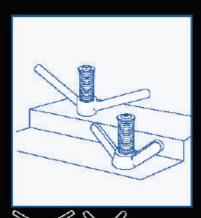
U-bolts & Eye Bolt P





(Continue from previouspage)





S80701, S31501

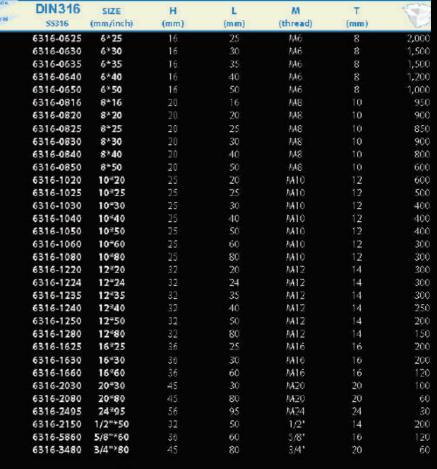
Technical Data

AISI316 - DIN 1,4408 S80701 - Nut - Cast S31501 - Nut - Cast "E.R." (Electro polished)

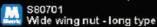
Field of application

Wide wing nuts - long type and Wing nuts - long type are specifically designed for screw onto an external threaded tool for tightening of a surface panel. The wing profile allows easy griping with a one hand motion. The long wing profile allows easy griping with a two hand motion.









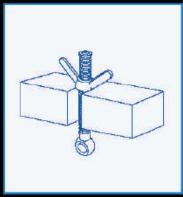


\$31501 Wing nut - long type

Peterial	\$80701 \$5316	SIZE (mm)	L (mm)	L1 (mm)	M (thread)	T (mm)	4
	6807-0116	M116	240	40	₽A16	30	50
	6807-0120	M20	240	40	M20	30	50
	6807-0124	M12 4	240	40	NA24	30	50
temno.	\$31501	SIZE	L	L1	M	T	(C)
Parent	55316	(mm)	(mm)	(mm)	(thread)	(mm)	
	6305-0108	M8	.51	16	M8	9.5	700
	6305-0110	M10	64	20	7410	12.0	600
	6305-0112	M12	74	23	PA12	14.0	400
	6305-0116	M16	86	28	NA16	16.0	300
	6305-0120	M20	108	36	NA20	20.0	150
	6305-0122	M22	122	40	PA22	22.0	100
	6315-0124	M24	134	45	NA24	24.0	50

OPI U-bolts & Eye Bolt

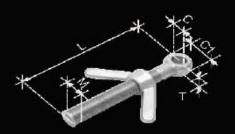






Technical Data
Casting meterial : AISIBIE - DIN 1.4408
Production : \$4600 - Bolt - Cast
Surface treatment : "E.R" | Electro polished)

Field of application
Long wing boit (with washer and nut) are design
for special purpose assembly where wing nut serves
as a tightening devide to the eye boit.



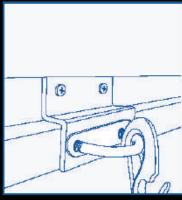
S4600 Long wing bolt (with washer and nut)

Material Material	\$4600 \$8316	SIZE (mm)	(mm)	C1 (mm)	L (mm)	M (thread)	T (mm)	9
	6460-0850	8*50	8.0	18	500	M8	9	500
	6460-0860	8*60	8.0	18	60	MB	9	500
	6460-0875	8175	8.0	18	75	MB	9	450
	6460-0810	8+100	8.0	18	10.0	NIB	9	400
	6460-1060	10*60	10.0	20	6.0	A410	12	400
	6460-0108	10*80	10.0	20	80	MATO	12	200
	6460-0101	10*100	10.0	20	100	M10	12	200
	6460-0112	10*120	10.0	20	120	MITO	12	200
	6460-1280	12*80	12.3	25	80	MITE	14	150
	6460-0121	12*100	12.3	25	100	M112	14	125
	6460-0125	12*150	12.3	25	150	M12	14	100
	6460-1216	12*160	12.3	25	160	M12	14	100
	6460-1610	16*100	16.0	32	100	M16	17	100
	6460-1612	16*120	16.0	32	120	W116	17	80
	6460-0161	16*150	16.0	32	150	M16	17	75
	6460-0166	16*160	16.0	32	160	A416	17	70
	6460-0162	16*200	16.0	32	200	MITO	17	50
	6460-2012	20*120	18.0	40	120	M20	22	SO
	6460-0201	20*150	18.0	40	150	MI20	22	30
	6460-0216	20*160	18.0	40	160	M20	22	30
	6460-0202	20*200	18.0	40	200	M20	22	30
	6460-2214	22*140	20.0	43	140	N122	23	30
	6460-2220	22*200	20.0	43	200	M22	23	25
	6460-0241	24*100	22.0	45	100	M24	25	30
	6460-2416	24*160	22.0	45	160	M24	25	25
	6460-0242	24*200	22.0	45	200	M24	25	25
	6460-0245	24*250	22.0	4.5	250	M24	25	20





U-bolts & Eye Bolt OPI





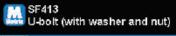
Technical Data

Forging material : AISIS04 - DIN 1.4301/ MISIS16 - DIN 1.4301/ MISIS16 - DIN 1.4301/ Production : SF413 - Bolt - Forged Surface treatment : "E.R." (Electro polished)

Field of application

U-bolts (with washer and nut) are designed for assembly onto a flat panel and serve as a pulling ring.







SF541, SF543, SF544, SF547, SF548, SF549 Long U-bolt (with washer and nut)

Name and Additional Control of the C									
Mercino. Maleria)	SF 55304	413 SS316	SIZE (mm)	B (mm)	D (mm)	L (mm)	L1 (mm)	M (thread)	1
4	1413-0460	6413-0460	4*60	30	4	62	30	M4	750
	413-0580	6413-0580	5*80	35	5	78	40	MS	600
	1413-0690	6413-0690	6*90	35	6	90	45	M6	200
2	1413-0880	6413-0880	8480	35	7	80	40	MS	200
4	1413-0810	6413-0810	8*100	35		100	50	M8	200
4	1413-1090	6413-1090	10*90	50	10	9.0	40	MITO	100
4	1413-1013	6413-1013	10*130	50	10	130	55	MIO	100
-	1413-1215	6413-1215	12*150	60	12	150	65	M12	60

SF541,SF543, SF544 SF547, SF548, SF549

Forging material : AISIS04 - DIN 1,4301/ AISIS16 - DIN 1,4401 Production : SF541 - Bolt - Forged SF543 - Bolt - Forged SF547 - Bolt - Forged SF547 - Bolt - Forged SF548 - Bolt - Forged SF548 - Bolt - Forged SF549 - Bolt - Forged SF549 - Bolt - Forged

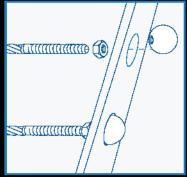
Field of application Long U-bolts (with washer and nut) are designed for assembly onto a field pand and serve as a pulling ring.

Material)	SF541 SS304	SIZE (mm)	B (mm)	D (mm)	L (mm)	L1 (mm)	M (thread)	0
	4541-1007	10+76	35	10	76	32	Ma	180
iterano. Malera)	SF543 58304	SIZE (mm)	B (mm)	D (mm)	L (mm)	L1 (mm)	M (thread)	9
	4543-1006	10+65	35	10	65	23	MAS	200
Material	SF544 55304	SIZE (mm)	B (mm)	D (mm)	L (mm)	L1 (mm)	M (thread)	9
	4544-1090	10*90	35	10	90	47	/ M 2	150
Remino Macrai	SF547 55304	SIZE (mm)	B (mm)	D (mm)	L (mm)	L1 (mm)	M (thread)	0
	4547-1011	10*115	35	10	115	47	MAS	100
Marcha)	SF548 58304	SIZE (mm)	B (mm)	D (mm)	L (m m)	L1 (mm)	M (thread)	8
	4548-1014	10*140	35	10	140	47	1 48	100
femno.	SF549 58304	SIZE (mm)	B (mm)	D (mm)	L (mm)	L1 (mm)	M (thread)	8
	SECURATE.	10/165	ಾರ	100	186	:4.7	N40	21.00



PI Balustrades





SAB/APL

Technical Data

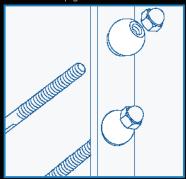
Casting material : AISI316 - DIN 1.4408 Surface treatment : "M.F." (Watte Finished)

Field of application

Architecture balls are designed as a neat and aesthetic end stopper to all types of threaded end fittings. It is best used for interior decoration.

Note: 13 Stan dard safety factor for working load is 1/4 of breaking load.

Refer to page 85 - dass 22 load characteristic



SAB/T/APL

Technical Data

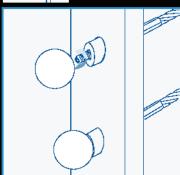
Casting material : AISI316 - DIN 1.4408 Surface treatment : "M.F." (Watte Finished)

Field of application
Architecture balls with through tapped hole are neat and aesthetic fasteners for all types of threaded end fittings. It is best used for interior decoration.

Note: 23 Standard safety factor for working load is 1/4 of breaking load.

Refer to page 85 - class 22 load characteristic





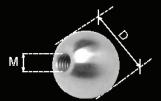
SAH/APL

Technical Data

Casting material : AISI316 - DIN 1.4408 Surface treatment : "M.F." (Matte finished)

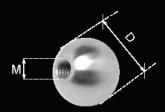
Field of application

Angle hinges are designed to provide an accurate angle support for all types of threaded end fittings. It is best used for interior stair decorations.



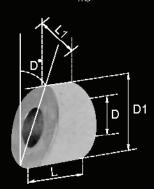
SAB/APL Architecture ball (right hand thread)

item no. Material	SAB/APL SS316	Ø D (mm)	M (thread)	***	B.L. ⁽¹⁾ (kgs)
	6125-1503	15	M5	600	750
	6125-2003	20	M5	600	750
	6126-2045	20	M6	600	1,400
	6128-2506	25	M8	500	2,200



SAB/T/APL Architecture ball with through tapped hole (right hand thread)

item no. Material	SAB/T/APL SS316	Ø D (mm)	M (thread)	7	B.L. ^{[1)} (kgs)
	6125-1573	15	M5	600	750
	6125-2073	20	M5	600	750
	6126-2074	20	M6	600	1,400
	6128-2576	25	M8	500	2,200

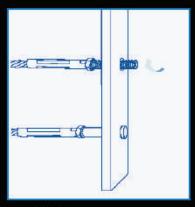


SAH/APL Angled hinge

em no. Naterial	SAH/APL	ANGLE	ØD	Ø D1	L	L1	43
HOVET HO!	SS316	(D°)	(mm)	(mm)	(m m)	(mm)	
	6182-0115	20	5.0	11	9.0	5	4,000
	6182-0136	20	6.0	13	9.7	5	3,000
	6182-0178	20	8.2	17	11.2	5	2,500
	6182-5115	25	5.0	11	10.0	5	4,000
	6182-5136	25	6.0	13	11.0	5	3,000
	6182-5178	25	8.2	17	12.9		2,500
	6183-0115	30	5.0	11	11.3	5	4,000
	6183-0136	30	6.0	13	12.5	5	3,000
	6183-0178	30	8.2	17	14.8	5	2,000
	6183-5115	35	5.0	11	12.7	5	3,000
	6183-5136	35	6.0	13	14.0	5	3,000
	6183-5178	35	8.2	17	16.9	5	2,000
	6184-0115	40	5.0	11	14.2	5	3,000
	6184-0136	40	6.0	13	15.9	5	3,000
	6184-0178	40	8.2	17	19.3	5	1,800



Balustrades OPI



SF7806TR

Technical Data

Forging material : AIS/216 - DIM 1.4401 Surface treatment : "E.R." (Electro polished)

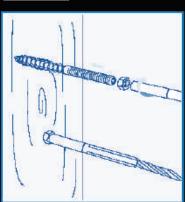
Field of application

Inside threaded domehead are designed as a neat and aesthetic end stopper to all types of threaded end fittings. It is best used for beliustrading.

Note: (11) Standard safety factor for working load is 1/4 of breaking load.

Refer to page 86 - dass 22 load characteristic





SF7801/IR, SF7801/IL

Technical Data

Forging material | AISI316 - DIN 1.4401 Surface treatment | "MLF" | Warrefinished)

Field of application

Inside the radiate imminishing designed as a neat and aesthetic connector between a cable and all types of external threaded and fittings. It is best used in combination with wooden screw for a dean profile to a wood surface.

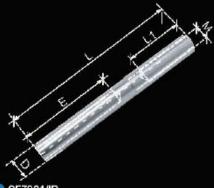
Note: (2) Standard safety factor for working load is 1/4 of breaking load.

Refer to plage IV - class 10 load characteristic



SF7806TR Inside threaded domehead (right hand thread)

(mm)	(mm)	(mm)	(thread)	1	(kgs)
7.13	10.0	40	M5	1,500	750
8.00	11.5	45	M6	1,200	1,400
11.00	14.0	55	M8	600	2,200
	(mm) 7.13 8.00	7.13 10.0 8.00 11.5	(mm) (mm) (mm) 7.13 10.0 40 8.00 11.5 45	(mm) (mm) (mm) (thread) 7.13 10.0 40 M5 8.00 11.5 45 M6	(mm) (mm) (mm) (thread) 7.13 10.0 40 M5 1,600 8.00 11.5 45 M6 1,200



SF7801/IR

Inside threaded terminal (right hand thread), SF7801/IL

Inside threaded terminal (left hand thread)

Penno.	SF7801/IR 55316	ØD (mm)	E (mm)	L (mm)	L1 (mm)	M (thread)	DIA Ø CABLE (mm)	133	B.L. ⁽²⁾ (kgs)
	6780-1382	5.50	25	65	20	MS	3	2,000	600
	6780-1383	6.35	25	65	20	1/46	4	1,500	1,000
	6780-1384	7.50	30	70	20	1/16		1,200	1,400
	6760-1365	9.00	40	85	25	MB	6	750	2,200
Peter el	SF7801/IL 88316	Ø D (mm)	E (mm)	L (mm)	L1 (m m)	M (thread)	DIA Ø CABLE (mm)	B	B.L. ⁽²⁾ (kgs)
	6780-1387	5.50	25	65	20	IULS	3	2,000	600
	6780-1388	6.35	25	65	20	1016	4	1,500	1,000
	6780-1389	7.50	30	70	20	1016		1,280	1,400
	6780-1390	9.00	40	85	25	7048	6	750	2,200





PI Snap shackles & Pelican hooks strubyna.com















Forging material : AISI316 - DIN 1.4408
Forging material : AISI316 - DIN 1.4401
Production : S2476 - Shackle - Cast Forging material Production

Swivel - Forged
Pin - Forged
: \$2478, \$2482
Shaddle - Cast

Swivel - Gast Swivel - Gast Pin - Forged Surface treatment : "E.P." (Electro polished)

Field of application
Snap shackles (stamped swivel jaw) and Snap shackle (cast swivel jaw) are designed for application where a simple light load version of a quick open/assembly

a simple injurious version of a quick open assembly pin is required. Snap shackles (cast swivel eye) are designed for applications where a free swivel action end is required.











S24821, S2483

Technical Data

Casting material Forging material

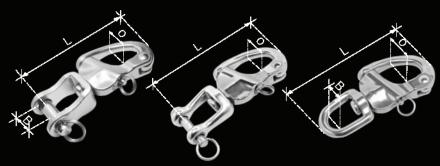
: AISI316 - DIN 1.4408 : AISI316 - DIN 1.4401 : S24821, S2483

Shadkle - Cast Pin - Forged Surface treatment : "E.P." (Electro polished)

Field of application Snap shackle heads and Fixed snap shackles are analy stackie leads and received stage stackies are designed for applications where a permanent non-swivel action end is required. Snap shackle head are designed for assembly with external parts such as ball bearing blocks.

Note: 11 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 15 load characteristics



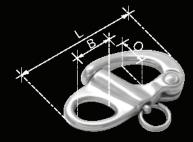
S2476 Snap shackle (stamped swivel jaw) Snap shackle (cast swivel jaw) S2482 Snap shackle (cast swivel eye)

item no. Material	S2476 SS316	SIZE	B (mm)	L (mm)	O (mm)	73	B.L. ^{[2)} (kgs)
	6247-6112	1	13	62	14	400	1,100
	6247-6216	2	15	77	20	200	2,000
	6247-6324	3	22	117	27	50	3,500

item no. Material	S2478 SS316	SIZE	B (mm)	L (mm)	O (mm)	43	B.L. ^{[2)} (kgs)
	6247-8170	1	13	70	14	300	1,100
	6247-8288	2	13	87	20	140	2,000
	6247-8313	3	22	127	27	50	3,500

item no. Material	\$2482 \$8316	SIZE	B (mm)	L (mm)	O (mm)	13	PRC	B.L. ^{[2)} (kgs)
	6248-2001	1	12	67	14	350	3	1,100
	6248-2021	2	16	87	20	200	3	2,000
	6248-2304	3	22	126	27	60	3	3,500





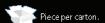


S24821 Snap shackle head

S2483 Fixed snap shackle

item no. Material	\$24821 \$8316	SIZE	B (mm)	L (mm)	O (mm)	43	B.L. ^{[1)} (kgs)
	6248-2101	1	10	42	14	500	1,100
	6248-2124	2	12	54	20	300	2,000
	6248-2134	3	15	76	27	80	3,500

S2483		B (mm)	L (mm)	O (mm)	13	P B C	B.L. ^[3]
SS316	SIZE						(kgs)
6248-3000	0	6.5	32	9	1,000	1	400
6248-3001	1	16.0	56	12	500	3	1,100
6248-3322	2	21.0	70	19	250	3	2,000
6248-3333	3	21.0	102	25	100	n/a	3,500
	SS316 6248-3000 6248-3001 6248-3322	SS316 SIZE 6248-3000 0 6248-3001 1 6248-3322 2	SS316 SIZE (mm) 6248-3000 0 6.5 6248-3001 1 16.0 6248-3322 2 21.0	SS316 SIZE (mm) (mm) 6248-3000 0 6.5 32 6248-3001 1 16.0 56 6248-3322 2 21.0 70	SS316 SIZE (mm) (mm) (mm) 6248-3000 0 6.5 32 9 6248-3001 1 16.0 56 12 6248-3322 2 21.0 70 19	SS316 SIZE (mm) (mm) (mm) 6248-3000 0 6.5 32 9 1,000 6248-3001 1 16.0 56 12 500 6248-3322 2 21.0 70 19 250	S2483 B L O P SS316 SIZE (mm) (mm) (mm) 6248-3000 0 6.5 32 9 1,000 1 6248-3001 1 16.0 56 12 500 3 6248-3322 2 21.0 70 19 250 3





Snap shackles & Pelican hooks





S2464, S2466, S2468

Technical Data

Forging moterial : AISB18 - DNN 1,6408 Forging moterial : AISB18 - DNN 1,6401 : S2-64, S2466, S2468 Sheede - Cast Surface beatment : "E.R." (Electro polished)

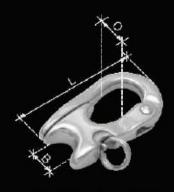
Field of application

Single shaddles are designed for marine application, where a rope friendly and with a quick release lever lareoured.

Note:^{©1} Standard safety factor for working load is 1/4 of breaking load.

hefer to page IV - dass 1 load characteristics

Note: Standard safety factor for working load is 1/4 of breaking load.

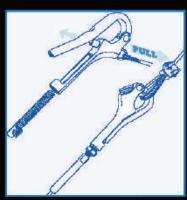


S2464/S2466/S2468 Snap shackle

Material	S2464 55316	SIZE (mm)	B (mm)	L (mm)	O (mm)	43	P n C	B.L. ⁽³⁾ (kgs)
	6246-4052	52	12	52	10	500	2	830
National Material	S2466 SS316	SIZE (mm)	B (mm)	L (mm)	O (mm)	T	P B C	B.L. ⁽³⁾ (kgs)
	6246-6066	66	15	66	14	250	3	1,850
denom.	S2468 SS316	SIZE (mm)	B (mm)	L (mm)	O (mm)	8	E B	B.L. ⁽⁸⁾ (kgs)
	6246-8096	96	25	96	18	80	3	3,500



□PI Snap shackles & Pelican hook: strubyng.com







\$2831,\$2831-I3, \$2831-I4, \$2831-I6, \$2831I3, \$2831I4

Technical Data

Casting material Forging material

: AIS 316 - DIN 1,4408 : AIS 316 - DIN 1,4401 52831 - Hook - Cest 52831-13, 52831-14, 52831-16 S2831-13, S2831-14, S283 S2831 Is, S2831 (4 Hoold: Cast Terminal - Forged : *E.P.* (Electro polished) : Right hand thread : Left hand thread

Field of application

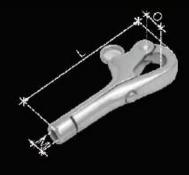
Pelican hooks are designed to be used an yatch mast. Terminals must be conectly selected for the application. Pelican hooks with studiterminal are specially designed for yatch mast. Correct terminal must be chosen for the

Note: 11 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - diess 1.5 load characteristics.

Note: Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 4 load characteristics



6383-1143 3/16"*5/16" 9.08







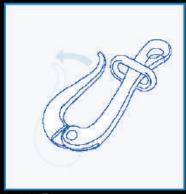
S2831-I3,I4,I6 / S2831I3,S2831I4 Pelican hook with stud terminal

Remition Wearest	\$2831 58316	SIZE (inch)	l (m		M (mm/ins	fh)	(m m)	F	3	8.L. ⁽⁾ (kgs)
	6283-1006	3"	7	75	M6		13.0	400):	1,200
	6283-1141	3"		75	1/4"LH-L	INF:	13.0	300)	1,200
	6283-3104	3"	7	75	1/4"RH-L	INF	13.0	300)	1,200
	6283-3143	3"	7	15	1/4"LH-U	NC	13.0	n/s	1	1,200
	6283-3142	3"	7	15	1/4'RH-L	INC	13.0	300)	1,200
	6283-1008	4"	10	00	M8		16.0	200	1	1,500
	6283-1561	4"	10	00	5/16"LH-I	JNF	16.0	201)	1,500
	6283-1562	4"	10	00	5/16"RH-I	JNF	16.0	200)	1,500
	6283-1012	6"	15	50	M12		25.5	.50)	3,500
Xamno. Malera i	\$2831-13 \$3316	SIZE (mm)	ØD (mm)	D1 (mm)	L (mm)	L1 (mm	Dia Ø (THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	Ī	B.L. ⁽²⁾ (kgs)
	6283-1303	0313	6.35	3.30	129	75	3	250	4	1,000
	6283-1413	0413	7.54	4.30	130	75	4		4	1,000
	6283-1613	0613	12.52	6,35	166	75	6	150	n/a	1,000
kerrino.	S2831-I4	SIZE	øD	D1	L		L1 I	oia Ø Cable	57	B.L. ⁽²⁾
Motorial	58316	(mm)	(mm)	(mm) (mr	n)	(mm)	(mm)	S. T.	(kgs)
	6283-1414	0414	7,54	4.30	1 16	8	100	4	150	1,500
	6283-1514	0.514	9.08	5.30	17	6	100	5	150	1,500
	6283-1614	0.614	12.52	6,35	18	3	100		100	1,500
	6283-1814	0814	16.13	8.40	21	3	100	8	100	1,500
terring.	S2831I3	SIZE	øD		1	i.	1.1	Dia Ø Cable	50	B.L. ⁽²⁾
Moterial	SS316	(insh)	(mm	S 10.37	Show made	nm)	(mm)	(inch)	10	(kgs)
	6283-1131	1/8"*1/4	6,35	3	.5 1	22	75	1/8"	300	1,200
	6283-1135	5/32"*1/4	7.54	4	.3 1	28	75	5/32*	300	1,200
tarring.	S2831I4	SIZE	øD		1	L	1.1	Dia Ø Cable	S	B.L. ⁽²⁾
Material	58316	(inch)	(mm) (m	m) (n	nm)	(mm)	(inch)	1	(legs)





Snap shackles & Pelican hooks OPI





Technical Data
Casting material : AIS316-DIN 14408
Production : SP90HP-Hook-Cast
Surfacetreatment : "M.R" (Wilton polished)

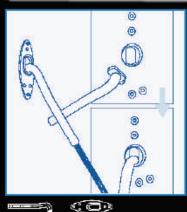
Field of application

Pelican hooks with link are designed for special on deck use on yatch and motorboats.

Note:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 2 load draracteristics





SF8282, SF510, S510

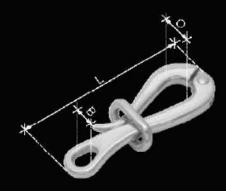
Technical Data

Casting material Forging material Production

Field of application

T.terminal and T-plate must be correctly chosen for the fittings to work properly on yetch mast assemblies.





S890HP Pelican hook with link

Marini Marini	S890HP	SIZE (inch)	B (mm)	L (mm)	O (mm)	9	B.L. ⁽⁾ (kgs)
	6890-0004	4"	10	100	18	200	760
	6890-0006	6"	13	150	22	80	1,200



MAG.	SF8282
100	31 0202
Marrie	T - termina

Hom no. Massile	SF8282 55316	SIZE (mm)	Ø D (mm)	ØF (mm)	L (mm)	8	P B C
	6626-2003	3	635	3.30	83	1,400	2
	6828-2004	4	7.54	4.30	101	500	
	6828-2005	5	9.08	5.30	112	500	
	6828-2006	6	12.52	6.35	138	200	n/a
	6828-2007	7	14.25	7.30	744	160	n/a.
	6828-2008	8	16.13	8.30	184	100	n/a
	6828-2010	10	17.85	10.50	208	70	n/a





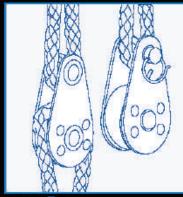
25	SF510	
Wheelering	T - plate (type	1)

24	S510		
Market.	T - plate	(type	2

Material	31310	SIZE	_	-	05	1
	SS316	(mm)	(mm)	(mm)	(mm)	N.
	6510-7180	7*16	18.0	60	4.2	1,000
	6510-9526	9.5+26	26.0	88	5.2	500
	6510-1534	15*34.5	34.5	123	6.3	200
remne.	\$510	SIZE	С	1	øs	(53)
Marene	55316	(mm)	(mm)	(mm)	(mm)	
	6510-1736	17*36	36	140	6.6	150
	020000000000	2010/01/02				

Blocks & Pulleys







SF8190

SF8240, SF8241

Technical Data

Technical Data
Stamping material | AISI304 - DIN 1 A3017 |
AIS316 - DIN 1 A3017 |
AIS316 - DIN 1 A401 |
Production | SF8190 - Sheave - Nylon |
Block - Sheet, Rivet - Pipe |
SF8240, SF8241 |
Shoove - Rylon Block - Sheet |
Rivet - Pipe |
Surface theat ment | "M.F." (Watte finished)

Field of application

Light pulley blocks are designed for simple pulley function interior or in small boats.





SF8248, SF8258





SF8248P, SF8258P

Technical Data

Samping material: AJS1204 - DIN 1 4301
Production SF8248, SF8258 - Sheave - Nylon
Block - Sheer, Rivet - Pin
SF8248, SF8258 - Sheave - Nylon
Block - Sheer, Rivet - Pipe
Surface treatment : "ALF." (Watte finished)

Field of application

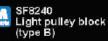
Pulley blocks are designed for simple pulley function.

Refer to page IV - class 17 load characteristics











SF8241 Light pulley block (type C)

Marchial	SF8190 55304	SIZE (mm)	E (mm)	L (mm)	T (mm)	7	B.L. ⁽¹⁾ (kgs)		
	4819-0019	19	20	37	6	850	300		
Nemna.	SF8240 SS316	SIZE (mm)	E (mm)	L (mm)	T (mm)	T	B.L. ⁽¹⁾ (kgs)		
	6824-0019	19	20	37	6	850	300		
Memoria.	SF8241 SS316	SIZE (mm)	E (mm)	L (mm)	T (mm)	10	B.L. ⁽¹⁾ (kgs)		
	6824-1019	19	20	37	6	850	300		













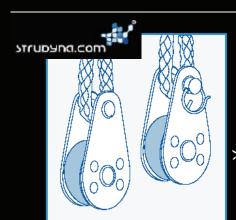




hemno. Macrial	SF8248 ssa04	SIZE (mm)	E (mm)	H (mm)	L (mm)	T (mm)	1	B.L. ^{[1)} (kgs)
	4824-8225	25	25.5	9.5	38	6.5	800	350
riemno.	SF8248P	SIZE (mm)	E (mm)	H (mm)	L (mm)	T (mm)	8	B.L. ^[1] (kgs)
	4824-8025	25	25.5	9.5	36	6.5	800	350
itemno. Makrisi	SF8258 55304	SIZE (mm)	E (mm)	H (mm)	L (mm)	T (mm)	0	B.L. ⁽¹⁾ (kgs)
	4825-8025	25	26	10	44	6.5	700	350
Name to a	SF8258P \$\$304	SIZE (mm)	E (mm)	H (mm)	L (mm)	T (mm)	1	B.L. ^{[1)} (kgs)
	4825-8125	25	26	10	44	6.5	700	350









SF8250,SF8252

SF8250P,SF8252P

Technical Data

 Technical Data

 Stamping material: AlSI304 - DIN 1,4301

 Production: SF8250, SF8252 - Sheave - Nylon

 Block - Sheet, Rivet - Pin

 : SF8250P, SF8252P - Sheave - Nylon

 Block - Sheet, Rivet - Pipe

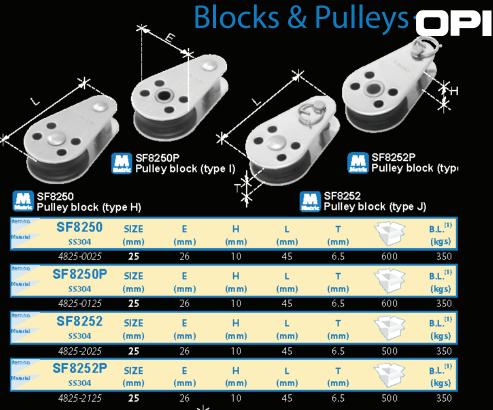
 Surface treatment: "M.F." (Matte finished)

Field of application

Pulley blocks are designed for simple pulley function interior or in small boats.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 17 load characteristics









SF8253,SF8256 SF8257

SF8253P,SF8256P SF8257P

Technical Data Stamping material: AISI304 - DIN 1.4301 Production: SF8253, SF8256, SF82 : A1304 - DIN 14301 : SF8253, SF8256, SF8257 Sheave - Nylon, Block - Sheet Rivet - Pin : SF8253P, SF8256P, SF8257P Sheave - Nylon, Block - Sheet Pinet - Direc

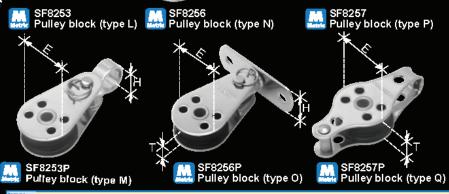
Rivet - Pipe Surface treatment : "M.F." (Matte finished)

Field of application

Pulley blocks are designed for simple pulley function interior or in small boats.

Note: Standard safety factor for working load is 1/4 of breaking load.

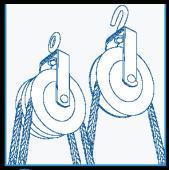
Refer to page IV - dass 18 load characteristics



	,(.) -	,							
item no.	SF8253	SIZE	Е	Н	L		т	C	B.L. ^[1]
Material	\$\$304	(mm)	(mm)	(m m)	(mn	n)	(mm)		(kgs)
	4825-3025	25	26	10	57		6.5	500	350
item no.	SF8253P	SIZE	E	н	L		т	47	B.L. ^[1]
Material	\$\$304	(mm)	(mm)	(m m)	(mn	n)	(mm)		(kgs)
	4825-3125	25	26	10	57		6.5	300	350
item no.	SF8256	SIZE	E	E1	н	L	т	4	B.L. ^[2]
Material	\$\$304	(mm)	(mm)	(mm)	(mm)	(mm)	(m m)		(kgs)
	4825-6025	25	26	48	16	50	6.5	350	350
item no.	SF8256P	SIZE	E	E1	н	L	т	4	B.L. ^[2]
Material	\$\$304	(mm)	(mm)	(mm)	(mm)	(mm)	(m m)		(kgs)
	4825-6125	25	26	48	16	50	6.5	350	350
item no.	SF8257	SIZE	E	н	L		т	4	B.L. ^[1]
Material	\$\$304	(mm)	(mm)	(m m)	(mn	n)	(mm)		(kgs)
	4825-7025	25	26	10	58		6.5	600	450
item no.	SF8257P	SIZE	E	н	L		т	47	B.L. ^[1]
Material	\$\$304	(mm)	(mm)	(m m)	(mn	n)	(mm)		(kgs)
	4825-7125	25	26	10	58		6.5	600	450

Blocks & Pulleys





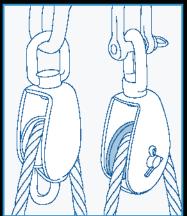
SF8671E, SF8671H

SF8672E, SF8672H

Technical Data
Stamping material: AISI304 - DIN 1.4301
Production: \$F86.71E, \$F86.71H,
\$F86.72E, \$F86.72T, Eye/Hook - Cast

Sheave - Nylon Shock (frame) - Stamped Surface treatment : "M.F." (Matte finished)

Field of application
Steering cable pulleys are designed for simple steering of cables in light load environment. Choose between eye or hook top and single or double





\$314-25,32,50 S314A

S314NL, S314ANL

Technical Data

Casting material : AISI304 - DIN 1.4308
Stamping material: AISI304 - DIN 1.4301
Welding material : AISI304 - DIN 1.4301
Welding material : AISI304 - DIN 1.4301
Production : \$314-25, \$314-32, \$314-50, \$314A
Swivel eye - Cast, Sheave - Cast
Block (Sheet) - Stamped
Expend Par

Eye end - Bar : S314NL, S314ANL

Swivel eye - Cast, Sheave - Nylon Block (sheet) - Stamped Eye end - Bar Surface treatment : "E.P." (Electro polished)

Field of application
Mame blocks are specifically designed for light pulley function in the finishing industry. Choose between different assembly setup for specific usage.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 19 load characteristics







SF8672H
Double steering cable pulley (hook top)

item no.	SF8671E	SIZE	C	ØD	H	L	T	(3)
Material	SS304	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
	4867-1065	65	14	6	18.1	110	13	100
item no.	SF8671H	SIZE	C	ØD	H	L	T	3
Material	SS304	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
	4867-1165	65	14	6	18.1	110	13	100
item no.	SF8672E	SIZE	C	Ø D	H	L	T	(3)
Material	SS304	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
	4867-2065	65	14	6	34.7	125	13	40
item no.	SF8672H	SIZE	C	ØD	H	L	T	B
Material	SS304	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
	40/7 21/5		1.4	,	24.7	126	1.0	40





Mame block (nylon sheave with eye end)

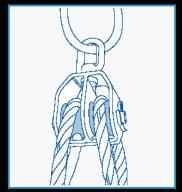
S314ANL

(cast sheave with eye end)

item no.	S314-25	SIZE	ØD	L	т	43	B.L. ^[1]
Material	SS304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4314-0025	25	27	79	11.5	200	1,500
item no.	S314-32	SIZE	ØD	L	Т	C	B.L. ^[1]
Material	SS304	(mm)	(mm)	(m m)	(m m)		(kgs)
	4314-0032	32	31.7	91.5	12.5	150	1,800
item no.	S314-50	SIZE	ØD	L	Т	4	B.L. ^[1]
Material	SS304	(mm)	(mm)	(m m)	(m m)		(kgs)
	4314-0050	50	50.2	124	14.5	60	3,500
item no.	S314A	SIZE	ØD	L	Т	4	B.L. ^{[1)}
Material	SS304	(mm)	(mm)	(m m)	(m m)		(kgs)
	4314-0625	25	27.0	104	11.5	175	1,500
	4314-0632	32	31.7	117	12.5	125	1,800
	4314-0650	50	50.2	149	14.5	50	3,500
item no.	S314NL	SIZE	ØD	L	Т	43	B.L. ^[1]
Material	SS304	(mm)	(mm)	(m m)	(m m)		(kgs)
	4314-0325	25	25	80.5	10.0	200	1,500
	4314-0332	32	32	93.0	10.0	150	1,700
	4314-0350	50	50	124.0	13.5	60	2,800
item no.							

	SS304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4314-0025	25	27	79	11.5	200	1,500
item no.	S314-32	SIZE	ØD	L	т		B.L. ^[1]
Material	SS304	(mm)	(mm)	(mm)	(m m)		(kgs)
	4314-0032	32	31.7	91.5	12.5	150	1,800
item no.	S314-50	SIZE	ØD	L	т	T	B.L. ^{[1)}
Material	SS304	(mm)	(mm)	(m m)	(m m)		(kgs)
	4314-0050	50	50.2	124	14.5	60	3,500
item no.	S314A	SIZE	ØD	L	т	4	B.L. ^[1]
Material	SS304	(mm)	(mm)	(mm)	(m m)		(kgs)
	4314-0625	25	27.0	104	11.5	175	1,500
	4314-0632	32	31.7	117	12.5	125	1,800
	4314-0650	50	50.2	149	14.5	50	3,500
item no.	S314NL	SIZE	ØD	L	T		B.L. ⁽¹⁾
Material	SS304	(mm)	(mm)	(m m)	(m m)		(kgs)
	4314-0325	25	25	80.5	10.0	200	1,500
	4314-0332	32	32	93.0	10.0	150	1,700
	4314-0350	50	50	124.0	13.5	60	2,800
item no.	S314NL	SIZE	ØD	L	т	43	B.L. ^[1]
Material	55304	(mm)	(mm)	(mm)	(m m)		(kgs)
	4314-0425	25	25	103.5	10.0	175	1,500
	4314-0432	32	32	115.5	10.0	125	1,700
	4314-0450	50	50	147.0	13.5	60	2,800







S315, S315A

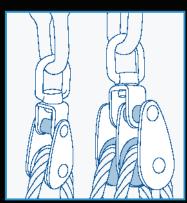


Technical Data

Technical Data

Casting material: AISI304 - DIN 1.4308
Stamping material: AISI304 - DIN 1.4301
Welding material: AISI304 - DIN 1.4301
Production: S315 - Swivel eye - Cast,
Sheave - Cast
Block (sheet) - Stamped
: S315A - Swivel eye - Cast,
Sheave - Cast
Block (sheet) - Stamped
Eye end (bar) - Welded
: S315N - Swivel eye - Cast,
Sheave - Nylon
Block (sheet) - Stamped
: S315ANL - Swivel eye - Cast,
Sheave - Nylon
Block (sheet) - Stamped
: S315ANL - Swivel eye - Cast,
Sheave - Nylon
Block (sheet) - Stamped
Eye end (bar) - Welded
Surfacetreatment: "E.R" (Elearo polished)

Field of application
Mame blocks are specifically designed for light pulley
function in the finishing in dustry. Choose between
different assembly setup for specific usage.





S3141, S3151





S3141NL, S3151NL

Technical Data

Production

AISI304 - DIN 1.4308 AISI304 - DIN 1.4301 S3141, S3151 Production : \$3141, \$3151 Swivel eye - Cast, Sheave - Cast Block (sheet) - Stamped : \$3141NL, \$3151NL Swivel eye - Cast, Sheave - Nylon Block (sheet) - Stamped Surface treatment : "E.R" (Electro polished)

Field of application

Mame blocks are specifically designed for light pulley function in the finishing industry. Choose between different assembly setup for specific usage.

Note: 10 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 19 load characteristics





S315NL Mame block (double nylon sheave)



Heteric Ma	115A ame block ouble cast sh	eave with	eye end)	Mam	ANL le block lble nylon sh	neave with ey	re end)
item no.	S315	SIZE	C	L	T	7	B.L. ^{[1)}
Material	\$\$304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4315-0025	25	14.5	80.0	11.5	125	1,500
	4315-0032	32	14.5	92.5	12.5	80	1,500
	4315-0050	50	20.5	127.0	14.5	35	2,500
itemno.	S315A	SIZE	C	L	T	T	B.L. ^{[1)}
Material	\$8304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4315-0125	25	14.5	100	11.5	100	1,500
	4315-0132	32	14.5	113	12.5	75	1,500
	4315-0150	50	20.5	148	14.5	30	2,500
item no.	\$315NL	SIZE	C	L	T	7	B.L. ^{[1)}
Material	\$8304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4315-0325	25	14.5	82.5	10	125	1,500
	4315-0332	32	14.5	94.5	10	80	1,500
	4315-0350	50	20.5	127.0	14	50	2,500
item no.	S315ANL	SIZE	C	L	T	**	B.L. ^{[1)}
Material	\$8304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4315-0225	25	14.5	101	10.0	125	1,500
	4315-0232	32	14.5	113	10.0	80	1,500
	4315-0250	50	20.5	148	13.5	30	2,500



S3141NL



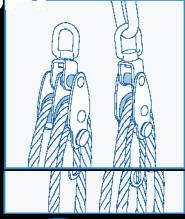




	man and a second	Mame block (nylon sheave)			S3151NL Mame block (double nylon sheave				
item no.	S3141	SIZE	C	L	T	43	B.L. ^{[1)}		
Material	ss304	(mm)	(mm)	(mm)	(mm)		(kgs)		
	4314-1025	25	13.0	87.5	8	200	1,500		
	4314-1032	32	14.5	100.0	9	160	1,700		
	4314-1050	50	20.5	142.0	15	60	2,800		
item no.	S3151	SIZE	C	L	T	13	B.L. ^{[1)}		
Material	ss304	(mm)	(mm)	(mm)	(mm)		(kgs)		
	4315-1025	25	13.0	87.5	8.0	150	950		
	4315-1032	32	13.0	100.0	9.0	100	1,200		
	4315-1050	50	20.5	142.0	14.5	35	2,800		
item no.	S3141NL	SIZE	C	L	T	13	B.L. ^{[1)}		
Material	ss304	(mm)	(mm)	(mm)	(mm)		(kgs)		
	4314-1325	25	13.0	87.5	10.0	200	1,500		
	4314-1332	32	14.5	100.0	10.0	200	1,700		
	4314-1350	50	20.5	142.0	13.5	60	2,800		
item no.	\$3151NL	SIZE	C	L	T	7	B.L. ^{[1)}		
Material	\$8304	(mm)	(mm)	(mm)	(mm)		(kgs)		
	4315-1325	25	13.0	87.5	10.0	150	950		
	4315-1332	32	13.0	100.0	10.0	100	1,200		
	4315-1350	50	20.5	142.0	13.5	35	2,800		











S3141/A, S3151/A

Technical Data

Technical Data
Casting material: AISI304 - DIN 1.4308
Stamping material: AISI304 - DIN 1.4301
Production: S3141/A, S3151/A
Swivel eye - Cast
Sheave - Cast
Block (sheet) - Stamped
Surface treatment: "E.P." (Electro polished)

Field of application

Mame blocks are specifically designed for the fishing industry where heavy loading and pulley is needed. Choose between Nylon and stainless sleeve according to use.





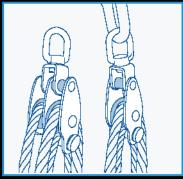
S3141NL/A, S3151NL/A

Technical Data
Casting material: AISI304 - DIN 1.4308
Stamping material: AISI304 - DIN 1.4301
Production: S3141 NL/A, S3151 NL/A
Swivel eye - Cast
Shape - Nylon

Sheave - Nylon
Block (sheet) - Stamped
Surface treatment: "E.P." (Electro polished)

Field of application

Mame blocks are specifically designed for the fishing industry where heavy loading and pulley is needed. Choose between Nylon and stainless sleeve according to use.





S3141/B, S3151/B

Technical Data

Casting material : AISI304 - DIN 1.4308 Stamping material : AISI304 - DIN 1.4301 Production : S3141/B, S3151/B

Swivel eye - Cast
Sheave - Cast
Block (sheet) - Stamped
Surface treatment: "E.P." (Electro polished)

Field of application

Mame blocks are specificly designed for the fishing industry where heavy loading and pully is needed. Choose between Nylon and stainless sleeve according to use.

Note: 10 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 19 load characteristics



S3141/A Mame block (cast sheave with eye plate)



S3141NL/A Mame block (nylon sheave with eye plate)



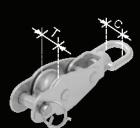
S3151/A Mame block (double cast sheave with eye plate)





S3151NL/A Mame block (double nylon sheave with eye plate)

item no.	S3141/A	SIZE	C	L	T	7	B.L. ^{[1)}
Material	SS304	(mm)	(mm)	(m m)	(mm)		(kgs)
	4314-1125	25	13.0	103.5	8.0	200	1,500
	4314-1132	32	14.5	118.0	9.0	175	1,700
	4314-1150	50	20.5	162.0	14.5	60	2,800
item no.	S3151/A	SIZE	C	L	T	\$	B.L. ^{[1)}
Material	SS304	(mm)	(mm)	(mm)	(m m)		(kgs)
	4315-1125	25	13.0	103.5	8.0	150	950
	4315-1132	32	13.0	118.0	9.0	100	1,200
	4315-1150	50	20.5	162.0	14.5	35	2,800
item no.	S3141NL/A	SIZE	C	(L	T	B.L. ^{[1)}
Material	SS304	(mm)	(mm)		mm)	(mm)	(kgs)
	4314-1425 4314-1432 4314-1450	25 32 50	13.0 14.5 20.5	1	03.5 18.0 62.0	10.0 10.0 13.5	1,500 1,700 2,800
item no.	S3151NL/A	SIZE	C	(L	T	B.L. ^{[1)}
Material	SS304	(mm)	(mm)		mm)	(mm)	(kgs)
	4315-1425 4315-1432 4315-1450	25 32 50	13.0 13.0 20.5	1	03.5 18.0 62.0	10.0 10.0 13.5	950 1,200 2,800







5	S3151/	В			
44.	Mame	block	(double	cast sh	eave 1

item no. Material	S3141/B SS304	SIZE (mm)	C (mm)	L (m m)	T (mm)	**	B.L. ^{[1)} (kgs)
	4314-1225	25	13.0	103.5	8	n/a	1,500
	4314-1232	32	14.5	118.0	9	150	1,700
	4314-1250	50	20.5	162.0	15	n/a	2,800
item no. Material	S3151/B ss304	SIZE (mm)	C (mm)	L (m m)	T (mm)	1	B.L. ^{[1)} (kgs)
	4315-1225	25	13.0	103.5	8	n/a	950
	4315-1232	32	14.5	118.0	9	100	1,200
	4315-1250	50	20.5	162.0	15	n/a	2,800



S3141NL/B, S3151NL/B

Technical Data

Casting material : AISI304 - DIN 1.4308 Stamping material : AISI304 - DIN 1.4301 Production : S3141NL/B, S3151NL/B

Swivel eye - Cast Sheave - Cast Block (sheet) - Stamped
Surface treatment: "E.P." (Electro polished)

Field of application

Mame blocks are specifically designed for the fishing industry where heavy loading and pulley is needed. Choose between Nylon and stainless sleeve $according \ to \ use.$





S314/H1

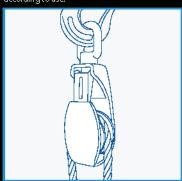
Technical Data

Fechinical Data (Sasting material : AISI304 - DIN 1.4308
Forging material : AISI304 - DIN 1.4301
Stamping material : AISI304 - DIN 1.4301
Production : S314/H1 - Hook - Forged
Sheave - Cast
Block (Sheet) - Stamped

Surface treatment: "E.P." (Electro polished)

Field of application

Mame blocks are specifically designed for the fishing industry where heavy loading and pulley is needed. Choose between Nylon and stainless sleeve according to use.





S212-E1-50, S212-H1-50

Technical Data

Casting material : Production

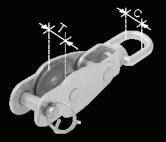
: AISI304 - DIN 1.4308 : S212-E1-50, S212-H1-50 Swivel eye/Hook - Cast

Sheave - Cast
Block - Cast
Surface treatment : "E.P." (Electro polished)

Field of application

Seine blocks are specifically designed for the fishing industry where nylon rope can be inserted with ease to the open latch system.

Blocks & Pulleys P





S3141NL/B Mame block (nylon sheave)

S3151NL/B Mame block (double nylon sheave)

itemno. Material	S3141NL/B SS304	SIZE (mm)	C (mm)	L (mm)	T (mm)	7	B.L. ⁽¹⁾ (kgs)
	4314-1525	25	13.0	103.5	10.0	n/a	1,500
	4314-1532	32	14.5	118.0	10.0	150	1,700
	4314-1550	50	20.5	162.0	13.5	50	2,800

itemno. Materal	S3151NL/B SS304	SIZE (mm)	C (mm)	L (mm)	T (mm)	7	B.L. ⁽¹⁾ (kgs)
	4315-1525	25	13.0	103.5	10.0	n/a	950
	4315-1532	32	14.5	118.0	10.0	100	1,200
	4315-1550	50	20.5	162.0	13.5	30	2,800



S314/H1 Mame block (cast sheave with hook top)

itemno.	\$314/H1	SIZE	B	E	L	T	(3)	B.L. ⁽¹⁾
Materal	SS304	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4314-0150	50	18	45	84.75	14.5	60	1,200





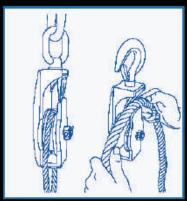


S212-H1-50 Seine block 50 mm (hook top)

itemno. Materal	S212-E1-50 SS304	SIZE (mm)	C (mm)	E (mm)	L (mm)	T (mm)	P	B.L. ⁽¹⁾ (kgs)
	4212-1150	50	20.5	50	157	14.5	30	1,400
itemno. Materal	S212-H1-50 SS304	SIZE (mm)	C (mm)	E (mm)		L (mm)	T (mm)	B.L. ⁽¹⁾ (kgs)
	4212-2050	50	24	50		184	14.5	1,400

PI Blocks & Pulleys







S212-E1-75, S212-H1-75

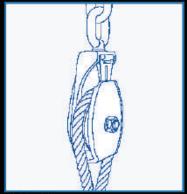
Technical Data

Technical Data
Casting material : AISI304 - DIN 1.4308
Production : 5212-E1-75, \$212-H1-75
Swivel eyethook - Cast
Sheave - Cast
Black - Cast
Black - Cast
Sufface Teatment : "E.P." | Blectro polished)

Field of application

Seine blocks are specifically designed for the fishing industry where nylon rope can be inserted with ease to the open latch system.







S212-E1-100, S212-H1-100

Technical Data

: A 5(364 - DIN 1.4368 ; 521 2-E1-100, 5212-H1-100 Swivel eye/Hook - Cast Sheave - Cast Block - Cast Surface treatment : "E.R" (Electro polished)

Field of application

Seine blods are specifically designed for the fishing in dustry where hylon rope can be inserted with ease to the open latch system.

Note: 11) Standard safety factor for working load is 1/4 of breaking load.

Refer to page Mi-dass 19 load characteristics







S212-H1-75 Seine block 75 mm (hook top)

ferrino. Malacad	S212-E1-75 88304	SIZE (mm)	C (mm)	E (mm)	L (mm)	T (mm)	T	B.L. ⁽¹⁾ (kgs)
	4 212-11 7 5	75	25	75	220	15	15	3,500
Remno.	S212-H1-75 SS304	SIZE (mm)	C (mm)	E (mm)	L (mm)	T (mm)	13	8.L. ⁽¹⁾ (kgs)
	4212-3175	7.5	25	75	242	15	15	2,300





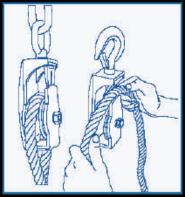


1	S212-H1-100		
100	S212-H1-100 Seine block 100	mm (hook	topi

Marenal	S212-E1-100 SS304	SIZE (mm)	B (mm)	C (mm)	E (mm)	T (mm)	8	B.L. ⁽¹⁾ (kgs)
	4212-3175	100	43	70	100	17	8	5,000
Remino, Material	\$212-H1-100 \$5304	SIZE (mm)	B (mm)	C (mm)	E (mm)	T (mm)	8	B.L. ⁽¹⁾ (kgs)
	4212-2100	100	43	25	100	17	5	2,300



Blocks & Pulleys OPI







S212L-E1, S212L-H1

Technical Data

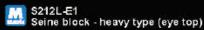
Technical Data
Carting reterial : AIS1004 - DIN 1.4.308
Production : S21.2.-E1, S21.2.-H3
Suivel eye/Hook- Cast
Shows- Cast
Block - Cast
Surface treatment : "E.R" (Electro polished)

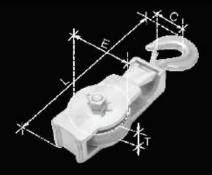
Field of application

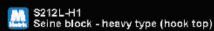
Seine blocks are specifically designed for the fishing industry where rylon rope can be inserted with ease to the open latch system.





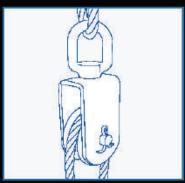






Herrico	S212L-E1	SIZE	C	E	L	T	19	B.L. ⁽¹⁾
Marici	55304	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4212-2175	75	24	75	220	22	12	3,500
Hetrino.	S212L-H1	SIZE	C	E	L	T	9	B.L. ⁽¹⁾
Wetarial	SS104	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4212-2275	75	25	75	270	22	15	2,300









S313-E1, S313NL-E1

Technical Data

Technical Data
Casting material : A13 304 - DIN 1 4308
Forging material : A15 304 - DIN 1 4501
Production : 3313- E1- Swiveleye - Cast
Sheave - Cast
Black (sheet) - Stamped
S313NL- E1- Swivel eye - Cast
Sheave - Rylon
Block (sheet) - Stamped
Surface treatment : "E.P" (Electro polished)

Tarum a blocks are specifically designed for the fishing industry where heavy loading and pulley is needed. Choose between Nylon and stainless sleeve according

Note:⁽¹⁾ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 19 load characteristic





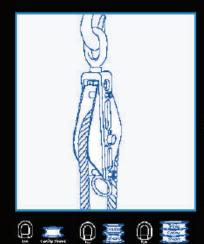


\$313NL-E1 Taruma block (nylon sheave)

formio.	\$313-E1 \$5304	SIZE (mm)	C (mm)	L (mm)	T (mm)	T	B.L. ⁽¹⁾ (kgs)
	4313-3050	50	20.5	124	14	60	3,500
	4313-3075	75	24.0	176		30	4,000
	4313-3100	100	24.0	205	19	12	5,500
formio.	S313NL-E1 88304	SIZE (mm)	C (mm)	L (mm)	T (mm)	8	B.L. ⁽¹⁾ (kgs)
	4313-4450	50	20.5	124	13.5	60	1,500

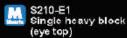
□PI Blocks & Pulleys



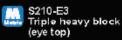








S210-E2 Double heavy block (eye top)





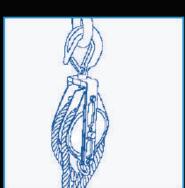
AISB04 - DIN 1.4308
(AISB04 - DIN 1.4308
(AISB04 - DIN 1.4301
S210 - E1, S210 - E2, S210 - E3
Sulvel eye - East
Sheave - East
Bods (Sheet) - Stamped
Block (frame) - Cast
Eye and (Rod) - Cast
"E.R" (Electro polished) Surface treatment:



Heavy blodrs are designed for heavy duty jobs Choose between single, double or triple sheave.



Protonol	S210-E1 58304	SIZE (mm)	E (mm)	L (mm)	⊤ (mm)	T	B.L. ⁽¹⁾ (kgs)
	4210-1175	75	83	255	16	15	3,500
	4210-1110	100	113	325	19		5,500
	4210-1125	125	140	350	20	4	8,500
Remito	S210-E2	SIZE	E	L	т	43	B.L. ⁽¹⁾
Hatensi	SS304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4210-1275	75	83	260	16	10	3,500
	4210-1210	100	113	325	19	4	5,500
	4210-1212	125	140	35B	20	3	8,500
Factorio .	S210-E3	SIZE	E	1	7	(50)	B.L. ^[1]
Hateral	58304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4210-1310	100	113	325	19	3	5,500





Technical Data Easting material Forging material Rod Production

AISI304 - DIN 1,4308 AISI 304 - DIN 1,4301 AISI 304 - DIN 1,4301 SZ10-H1, S1,0-H2 Hook-Cast Hook - East Sheave - Cart Block - Forged Eye and - Rod Surface freatment //E.R** (Electro poliched)

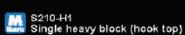
Field of application

Heavy blocks are designed for heavy duty jobs in hishing industry. Choose between single or double sheave assembly.

Note: 11 Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 19 load tharacteristic





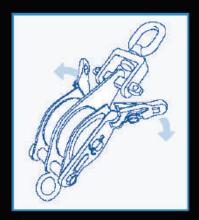


S210-H2 Double heavy block (hook top)

Harmino. Bilaterio i	\$210-H1 \$8304	SIZE (mm)	Ø C (mm)	E (mm)	L (mm)	T (mm)	8	B.L. ⁽¹⁾ (kgs)
	4210-2175	75	20	83	275	16	1.2	2,300
	4210-2110	100	35	113	340	19	5	2,300
	4210-2112	125	35	140	385	20	4	3,950
Itarino. Material	S210-H2 SS304	SIZE (mm)	Ø C (mm)	E (mm)	L (mm)	T (mm)	7	B.L. ⁽¹⁾ (kgs)
	4210-2275	75	28	83	280	16	10	2,300
	4210-2210	100	35	113	340	19	4	2,300
	4210-2212	125	35	140	395	20	3	3,950



Blocks & Pulleys PI





S211-E1, S211-E2



S211-H1, S211-H2

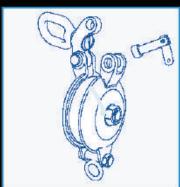
Technical Data

Technical Data
Casting material : AIS 304 - CIU 1.4308
Forging material : AIS 304 - CIN 1.4301
Rod : AIS 304 - CIN 1.4301
Production : SIS 304 - CIN 1.4301
Sistive eye/ Hook - Cast
Sheave - Cast
Block - Forged
Eye end - Rod
Surface treatment : 7 E.PC | Electro polished

Field of application

Snatch block provides the extra versatility of open istch for easy loading and unloading of rope. Chose between hook or eye top and single or double sheave assembly.







S213-E1

Technical Data

Casting material : AISI804 - DIN 1.4308
Welding material : AISI804 - DIN 1.4301
Production : S213-E1 - Servel eye - Cast
Sheme - Cast
Block - Cast
Block - Cast
Eye end (nod) - Welded

Suiface treatment : "E.R." (Electro polished)

Field of application

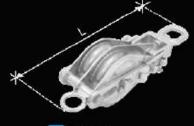
Taruma blods are designed ball bearing and copper internal rings for heavy duty pulley applications. Top lever can be opened with a lever pin for easy loading and unloading of ropes.

Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dessily load characteristic







S211-E2 Double snatch block (eye top)







200	S211-H2		
Medical C	Double snatch block	(hook:	top

Martinia.	S211-E1 55304	SIZE (mm)	C (mm)	E (mm)	L (mm)	T (mm)	9	B.L. ^[1] (kgs)
	4210-1175	75	20	83	250	15	10	3,500
	4210-1110	100	35	113	31 <i>5</i>	18	5	5,000
	4210-1125	125	35	140	355	20	5	7,700
Martenal	S211-E2 SS304	SIZE (mm)	(mm)	E (mm)	L (mm)	T (mm)	8	8.L. ⁽¹⁾ (kgs)
	4211-2075	75	20	83	290	15	8	3,500
	4211-2100	100	35	113	315	17	5	5,000
	4211-2125	125	35	140	380	20	n/a	7,700
rtem no.	S211-H1	SIZE	C	E	L	T	8	B,L. ⁽¹⁾
Managar	55304	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4211-2175	75	20	83	270	16	12	2,300
	4211-2110	100	35	113	335	19	5	2,300
	4211-2112	125	35	140	360	20	4	3,950
rlam no.	S211-H2	SIZE	C	E	L	T	9	B.L. ⁽¹⁾
Universi	SS304	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4211-2275	75	20	83	30.5	1.5	6	2,300
	4211-2210	100	35	113	34.5	1.7	n/a	2,300
	4211-2212	125	35	140	39.0	20	n/a	3,950





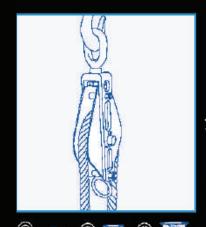
Section

S213-E1 Taruma block	(eye	top
----------------------	------	-----

dem no.	S213-E1	SIZE	В	c	E	т	100	B.L. ¹¹⁾
Maleria:	58316	(mm)	(mm)	(mm)	(mm)	(m m)		(kgs)
	6213-1175	75	20	20	75	16	12	4,000
	6213-1110	100	24	20	100	16	8	6,000
	6213-1125	125	27	30	125	18	4	8,000
	6213-1150	150	30	30	150	20	2	10,000

■PI Blocks & Pulleys











S210-E2 Double heavy block (eye top)





Field	of applic:	ation
Lower	blades are	Nacia

Heavy blodes are designed for heavy duty jobs. Choose between single, double or triple sheave.



Pernino	\$210-E1	SIZE	E	L	T	T	B.L. ⁽¹⁾
Protonol	\$8904	(mm)	(mm)	(mm)	(mm)		(kgs)
	4210-1175	75	83	255	16	15	3,500
	4210-1110	100	113	325	19	6	5,500
	4210-1125	125	140	350	20	4	8,500
Remitro	\$210-E2	SIZE	E	L	T	8	B.L. ⁽¹⁾
Matanal	\$\$304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4210-1275	75	83	260	16	10	3,500
	4210-1210	100	113	325	19	4	5,500
	4210-1212	125	140	358	20	3	8,500
Haraman	\$210-E3	SIZE	E	L	⊤	43	B.L. ⁽¹⁾
Hataran	55304	(mm)	(mm)	(mm)	(mm)		(kgs)
	4210-1310	100	113	325	19	3	5,500







Single heavy block (hook top)

S210-H2 Double heavy block (hook top)

S210-H1 SS304	SIZE (mm)	Ø C (mm)	E (mm)	L (mm)	T (mm)	8	B.L. ¹¹⁾ (kgs)
4210-2175	75	20	83	275	16	12	2,300
4210-2110	100	35	113	340	19	S	2,300
4210-2112	125	35	140	385	20	4	3,950
S210-H2 SS304	SIZE (mm)	Ø € (mm)	E (mm)	L (mm)	T (mm)	8	B.L. ⁽¹⁾ (kgs)
4210-2275	75	28	83:	Z80	16	10	2,300
4210-2210	100	35	113	340	19	4	2,300
4210-2212	125	35	140	395	20	3	3,950
	\$\$304 4210-2175 4210-2110 4210-2112 \$\$210-H2 \$\$304 4210-2275 4210-2210	\$\$304 (mm) 4210-2175 75 4210-2110 100 4210-2112 125 \$\$210-H2 SIZE \$\$304 (mm) 4210-2275 75 4210-2210 100	SS304 (mm) (mm) Mm Mm Mm Mm Mm Mm Mm	SS304 (mm) (mm) (mm) 4210-2175 75 20 83 4210-2110 100 35 113 4210-2112 125 35 140 S210-H2 SIZE Ø C E SS304 (mm) (mm) (mm) 4210-2275 75 20 83 4210-2210 100 35 113	SS304 (mm) (mm) (mm) (mm) 4210-2175 75 20 83 275 4210-2110 100 35 113 340 4210-2112 125 35 140 385 S210-H2 SIZE Ø C E L SS304 (mm) (mm) (mm) (mm) 4210-2275 75 20 83 280 4210-2210 100 35 113 340	SS304 (mm) (mm) (mm) (mm) (mm) 4210-2175 75 20 83 275 16 4210-2110 100 35 113 340 19 4210-2112 125 35 140 385 20 S210-H2 SIZE Ø C E L T S8304 (mm) (mm) (mm) (mm) (mm) 4210-2275 75 20 83 280 16 4210-2210 100 35 113 340 19	SS304 (mm) (mm) (mm) (mm) 4210-2175 75 20 83 275 16 12 4210-2110 100 35 113 340 19 5 4210-2112 125 35 140 385 20 4 S210-H2 SIZE Ø C E L T T S8304 (mm) (mm) (mm) (mm) (mm) (mm) 4210-2275 75 20 83 280 16 10 4210-2210 100 35 113 340 19 4

S210-H1, S210-H2

Technical Data Easting material Forging material Rod AISI304 - DIN 1,4308 AISI 304 - DIN 1,4301 AISI 304 - DIN 1,4301 SZ10-H1, S1,0-H2

Hooke-Cast

Sheave-Cast

Sheave-Cast

Block-Forged

Eye end - Rud

Surface treatment ("E.R." (Electro polished)

Field of application

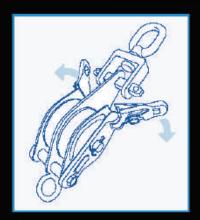
Heavy blocks are designed for heavy duty jobs in fishing industry. Choose between single or double sheave assembly.

 $\mathbf{Note}^{(0)}$ Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - class 191 and thiar action stic



Blocks & Pulleys OPI





S211-E1, S211-E2



S211-H1, S211-H2

Technical Data
Casting material
Forging material
Rod Production

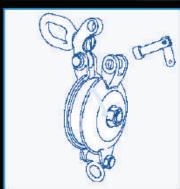
AISI 204 - DNI 1 4308 AISI 304 - DNI 1 4301 AISI 304 - DNI 1 4301 S211 - E1, S11 - E2, S11 - H1, S211 - H2

Suive Control State Control St

Field of application

Snatch block provides the extra versatility of open latch for easy loading and unloading of rope. Chose between hook or eye top and single or double sheave assembly.







S213-E1

Technical Data

Casting material : AISI304 - DIN 1.4308 Welding material : AISI304 - DIN 1.4301 : Albase4 - Unit (449) : \$213-E1 - Swivel eye - Cast Sheave - Cast Block - Cast Eye end (nod) - Welded

Surface treatment : "E.R." (Electro polished)

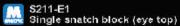
Field of application

Trauma blodts are designed ball bearing and copper internal rings for heavy duty pulley applications. Top lever can be opened with a lever pin for easy loading and unloading of ropes.

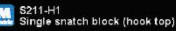
Note: (1) Standard safety factor for working load is 1/4 of breaking load.

Refer to page IV - dass 19 load characteristic











S211-E2 Double snatch block (eye top)



Double snatch block (hook top)

rhemms.	S211-E1	SIZE	C	E	L	T	9	B.L. ^[1]
Malertei	55304	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4210-1175	75	20	83	250	15	10	3,500
	4210-1110	100	35	113	31 <i>5</i>	18	5	5,000
	4210-1125	125	35	140	355	20	5	7,700
Martina. Wateral	S211-E2 SS304	SIZE (mm)	(mm)	E (mm)	L (mm)	T (mm)	8	B.L. ⁽¹⁾ (kgs)
	4211-2075	75	20	83	290	15	8	2,500
	4211-2100	100	35	113	315	17	5	5,000
	4211-2125	125	35	140	380	20	n/a	7,700
rtem no.	S211-H1	SIZE	C	E	L	T	8	B.L. ^{II)}
Managa	55304	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4211-2175	75	20	83	270	16	12	2,300
	4211-2110	100	35	113	335	19	5	2,300
	4211-2112	125	35	140	360	20	4	3,950
Ham no.	S211-H2	SIZE	C	E	L	T	9	B.L. ⁽¹⁾
Maleira	SS304	(mm)	(mm)	(mm)	(mm)	(mm)		(kgs)
	4211-2275	75	20	83	305	1.5	6	2,300
	4211-2210	100	35	113	345	17	n/a	2,300
	4211-2212	125	35	140	390	20	n/a	3,950





Section

MA Mention	S213-E1 Taruma block	(eye	top)

dem no. Maioriai	S213-E1 SS316	SIZE (mm)	B (mm)	C (mm)	E (mm)	T (mm)	8	B.L. ¹¹⁾ (kgs)
	6213-1175	75	20	20	75	16	12	4,000
	6213-1110	100	24		100	16	8	6,000
	6213-1125	125	27	30	125	18	4	8,000
	6213-1150	150	30	30	150	20	2	10,000

Anchor, Cleats & Rod holders







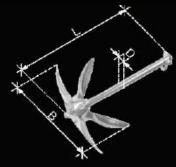
Technical Data

Technical Data	Casting material	AIS316 - DIM 1440
Forging meterial	AIS316 - DIM 1440	
Froduction	S4100 - Anchor - Cast	
S4200 - Anchor - Cast		
S4200 - Anchor - Welded		
Surface freatment	"M.P." (Mirror polished)	
E.P." (Electro polished)		

Field of application

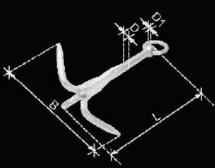
Folding anchors are casted with highest precision in material to avoid rust during sea operations. Flow anchors are casted with highest precision in material to evoid it as during sea operations. Hook anchors are TIG Argon welded with highest precision in material to avoid rust during sea operations.





Folding anchor





S3230 Hook anchor

Memorial	S4100 88316	SIZE (kqs/mm)	B (mm)	Ø D (mm)	L (mm)	*
	6410-0105	1.5	280	17.00	280	n/a
	6410-0003	3.0	325	20.00	330	8
	6410-0005	5.0	410	21.90	400	2
	6410-0007	7.0	470	25.00	460	2
	6410-0010	10.0	575	28.18	523	2

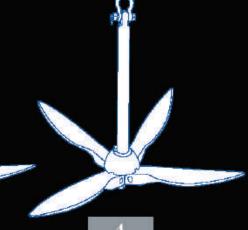
Material	\$3230 \$5304	SIZE (kgs/mm)	B (mm)	ØD (mm)	Ø D1 (m m)	L (mm)	4
	4323-0200	200	145	13	6	205	30
	4323-0240	240	220	16		250	10

Instructions for application of \$4100





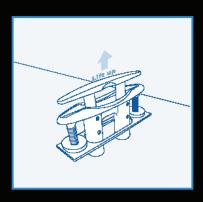






Anchor, Cleats & Rod holders



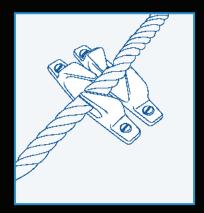


S301

Technical Data
Casting material : AISI316 - DIN 1.4408
Production : S301 - Cleat - Cast
Surface treatment : "M.R." (Mirror polished)

Field of application

Pull up cleats are designed for assembly onto motorboats with internal rest settings for a strim line appearance.

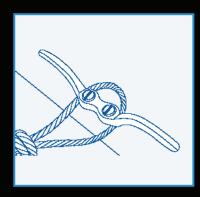


S506L,S506R

Casting material : AISI316 - DIN 1.4408
Production : S506L, S506R - Chocks - Cast
Surface treatment : "M.R." (Mirror polished)

Field of application

Skene chocks are manufactured with highest precision in casting material to avoid any rust during sea application.



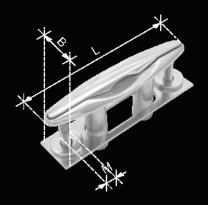
S4015

Technical Data

Casting material : AISI316 - DIN 1.4408
Production : S4015 - Cleat - Cast
Surface treatment : "E.P." (Electro polished)

Field of application

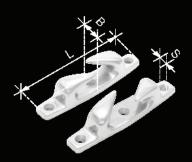
Rope cleats are manufactured with highest precision in casting material to avoid any rust during sea application.





S301 Pull up cleat

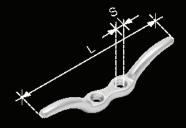
item no. Material	\$301 88316	SIZE (in ch)	B (mm)	L (mm)	M (thread)	₩
	6301-0405	4.5"	30.5	121.6	5/16"-18UNC	50
	6301-0600	6"	38.0	160.0	3/8"-16UNC	20
	6301-0800	8"	51.0	214.3	3/8"-16UNC	10





S506L, S506R Skene chocks

item no.	\$506L	SIZE	B	L	S	
Material	\$\$316	(in ch)	(mm)	(mm)	(mm)	
	6506-1412	4.1/2"	23	114	5	130
	6506-1006	6"	34	150	6	50
item no.	S506R	SIZE	B	L	S	
Material	ss316	(in ch)	(mm)	(mm)	(mm)	
	6506-2412	4.1/2"	23	114	5	130
	6506-2006	6"	34	150	6	50

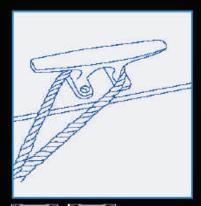




S4015 Rope cleat

itemno. Material	\$4015 \$\$316	SIZE (in ch)	L (mm)	S (mm)	€
	6401-5212	2.1/2"	68	4.5	2,000
	6401-5412	4.1/2"	114	5.8	500
	6401-5006	6"	150	6.7	250

■PI Anchor, Cleats & Rod holders strubsha.com





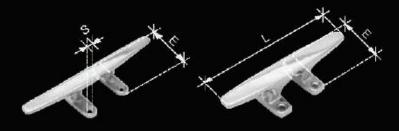
Technical Data

: AISI316 - DIN 1,4406 : 5505 - Cleat - Cast 5505H - Cleat - Cast Casting material Production Surface treatment : "M.R." | Wirror polished|

Field of application

Trim line cleats are manufactured with highest predision in casting material to avoid any rust during sea application.

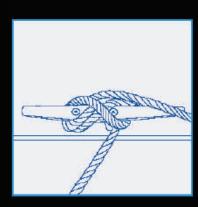
Trim line cleats - heavy type are manufactured with highest predision in casting material to avoid any rust during sea application.







tam no. Molesiel	\$505 \$8316	SIZE (inch)	E (mm)	L (mm)	ØS (mm)	1
	6505-0004	4"	36.0	100	4.5	150
	6505-0005	5"	46.0	125	5.5	125
	6505-0006	6"	53.0	150	6.5	50
	6505-0008	g"	68.0	200	8.5	40
	6505-0010	10"	82.5	250	8.5	20
	6505-0012	12"	82,5	300	8.5	15
Remail.	S505H 58316	SIZE (inch)	E (mm)	L (mm)	Ø S (mm)	*
	6505-5060	6"	56	150	6	75
	6505-5007	7"	60	180	6	40





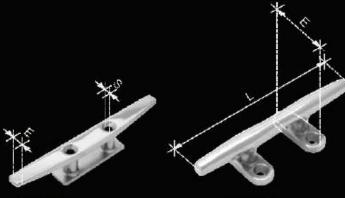
Technical Data

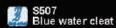
Production : AIS316-DIR 14408
Production : SS07-Cleat-Cast
SS08-Cleat-Cast
Surface treatment : "M.R." (Wimpropolished)

Field of application

Rule water cleats are manufactured with highest precision in casting material to avoid any rust during sea application. Low flat cleats are manufactured with highest precision in casting material to avoid any rust during sea application.







SIZE

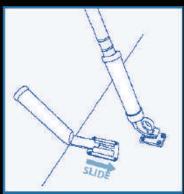
S507

97	\$508
1	Low flat cleat

irle to se i	55316	(inch)	(mm)	(mm)	(mm)	
	6507-0004	4"	8	100	4.5	250
	6507-0005	5"	9	125	5.5	140
	6507-0006	6"	12	150	6.5	100
	6507-0008	8"	15	200	8.5	60
	6507-0010	10"	76	250	8.5	40
kem no.	S508	SIZE	E	0	øs	
55316 6508-00		(inch)	(mm)	(mm)	(mm)	
	6508-0004	4"	35	100	4.5	140
	6508-0005	5"	42	125	5.5	100
	6508-0006	6"	45	150	6.5	100
	6508-0008	8"	54	200	6.5	50
	6508-0010	10"	68	255	8.0	20
	6508-0012	12"	71	300	8.0	15
	6508-0015	15"	115	380	12.5	5

Anchor, Cleats & Rod holders P







Technical Data

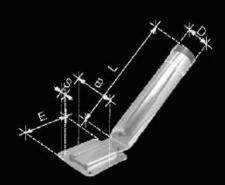
Casting material : AISB04 - DIN 1/4308 Forging material : AISB04 - DIN 1/4301 Production : SFG216016 - Holder SFG216016 - Holder - Pipe

Body - Forged SF 2 16018 - Holder - Pipe Body - Cast

Surface treatment: "M.R." (Mirror polished)

Field of application

Removable rod holders are designed for easy assembly to any boat deck type for fishing rods. Deck mount rod holders are designed for assembly on boat deck with easy 45 degrees angle adjustment. knob for fishing rods.



SFG216016 Removable rod holder



SFG216018 Deck mount rod holder

Hermito Metarial	SFG216016 55304	B (mm)	ØD (mm)	E (mm)	L (mm)	S (mm)	7
	4216-0160	95	50.8	100	220	7	4
Meterial	SFG216018 55304	B (mm)	Ø D (mm)	E (mm)	L (mm)	S (mm)	7
	4216-0180	56	51	90	234	6.7	6





Technical Data

Casting material : AISB04 - DIN 1.4308. Forging material : AISB04 - DIN 1.4301 Production : SEG216017 - Holder : AISI304 - DIN 1.4301 : SEG2.16017 - Holder - Pipe Section | Section | Holder - Pipe Body - Cast SFC2 16019 - Holder - Pipe Body - Cast Surface treatment : "M.R." (Minor polished)

Field of application

Flush mount rod holders are designed for assembly with existing hole on boat deck for fishing rods.
Rail mount rod holders are designed for assembly on boat deck with rails for fishing rods.



SFG216017 Flush mount rod holder



SFG216019 Rail mount rod holder

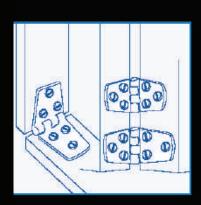
flemro. Flemrol	SFG216017 55304	Ø D (mm)	E (mm)	L (mm)	5 (mm)	9
	4216-0170	51	130	200	6.6	6
Hemro. Material	SFG216019 55304		Ø D (mm)	L (mm))	*
	4216-0190		51	215		9

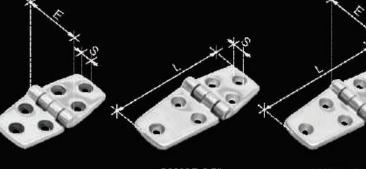




□PI Hingers & Deck Mounts















Fechnical Data Casting material. Production

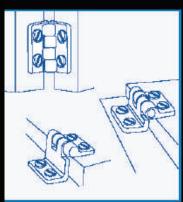
AIS 316 - DIN 1,4408 S92229-31- Hinge - Gast S92228-3,51- Hinge - East

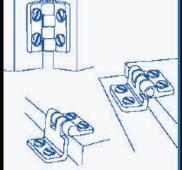
\$9.2228-4" - Hinge - Cast Surface treatment + "M.R." (Mirror polished)

Field of application

Banlesshinges are elegantly designed with precision tasting for a special solid rust resistant look on boat decks.

Herrino. Motorial	\$9222R-3" 55016	SIZE (inch)	E (mm)	L (mm)	Ø5 (mm)	7
	6922-2003	3"	38	76	5.5	250
Marena i	S9222R-3.5"	SIZE (inch)	E (mm)	L (mm)	Ø-5 (mm)	*
	6922-2035	3.5"	38	90,5	5:5	250
tornno. Wwestel	\$9222R-4" \$\$316	SIZE (inch)	E (mm)	L (mm)	Ø 5 (mm)	4
	6922-2004	4"	38	105	5.5	20.0







S9224, S9224WS, S9224WL

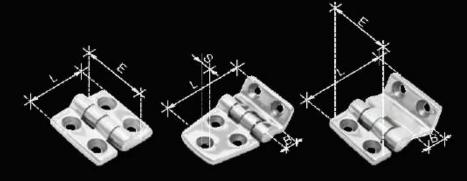
Technical Data

AI 51316 - DIN 1 /4408 59224 - Hinge - Cast 59224WS - Hinge - Cast Casting meterial Production

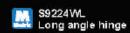
59224WL - Hinge - Cast Surface treatment : "M.P." [Winter polished]

Field of application

Stainlesshinges are elegantly designed with precision casting for a special solid rust resistant ook on boot decks.



S9224		C02243A/S
Hinge	Mortale.	S9224WS Angle hin



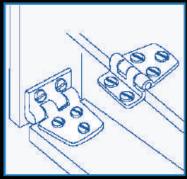
Aprinto. Viverlat	\$9224 \$8316 6922-4038	SIZE (mm)	E (mm) 38	(6)	L nm) 8	Ø S (mm) 5.5	350
Norma: Normal	S9224WS 88316	SIZE (mm)	B (mm)	E (mm)	L (mm)	Ø5 (mm)	4
	6922-4138	38	9,5	38	38	5,5	350
Material	S9224WL 55316	SIZE (mm)	B (mm)	E (mm)	L (mm)	Ø S (mm)	P
	6922-4380	38	19	38	38	5.5	350





STrubyng.com Deck Mounts







S9223, S9223WS

Technical Data

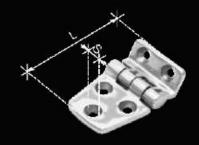
Production : SS223 - Angle - Stamped S9223 - Angle - Stamped Surface treatment : "M.R." (Mirror polished)

Field of application

Steinless hinges are elegantly designed with precision casting for a special solid historesistant look on boat decks.

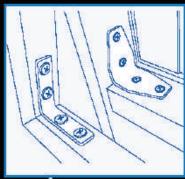








Perono Pero ol	S9223 SS316	SIZE (mm)	B (mm)	L (mm)	Ø 5 (mm)	Ú,
	6922-3057	57	19	57.0	5.5	200
	6922-3071	71	19	71.5	5.5	250
Remno Maerial	\$9223W\$ \$8316	SIZE (mm)	B (mm)	L (mm)	Ø 5 (mm)	4
	6922-3157	57	19	57.0	5.5	300
	6922-3171	71	19	71.5	5.5	300







SF8340, SF8341

Technical Data
Casting material : ALSISO4 - DIN 1,4208
Stamping material : ALSISO4 - DIN 1,4207
Production : SESS40 - Angle- Stamped
SF8241 - Angle- Stamped
Surface treatment : "E.R." (Electro polithed)

Field of application

Light and pseudo Heavy angles are designed for easy assembly onto two ongled panels for maintaining the 90 degrees angle function. The heavy type profile provides extre support for the angled function.









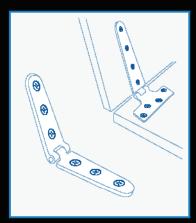
Max al	SF8340 55304	SIZE (mm)	E (mm)	L (mm)	Ø 5 (mm)	**				
	4834-0001	3*31*12	12	31	4.2	1,800				
	4834-0002	3*46*13	13	46	5.3	1,400				
	4834-0003	3*61*15	15	61	6.3	500				
Patrico Placered	SF8341 \$8304	SIZE (mm)	E (mm)	E1 (mm)	L (mm)	7				
	4834-1001	3*41*25	25	12.5	:41	880				
	4834-1002	3*56*35	35	17.5	56	400				
	600 £ 2000	ANDRES		200	nn	100				





OPI Hingers & Deck Mounts



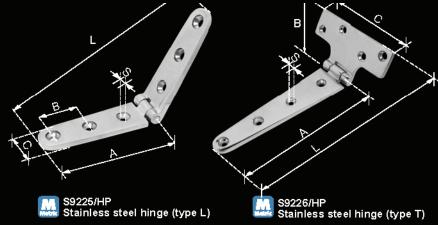


S9225/HP, S9226/HP

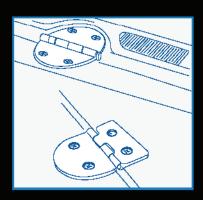
Technical Data

Casting material : AISI316 - DIN 1.4408
Surface treatment : "M.P." (Mirror polished)

Stainless steel hinges are elegantly designed for marine applications where a special corrosion resistance of the boat deck is required.



item no. Material	S9225/HP SS316	SIZE (mm)	A (mm)	C (mm)	L (mm)	Ø S (mm)	13
	6922-5274	4	80	27	160	5.5	200
item no. Material	SS316	SIZE (mm)	A (mm)	C (mm)	L (mm)	Ø S (mm)	P
	6922-6985	5	146.5	98	197	6	100



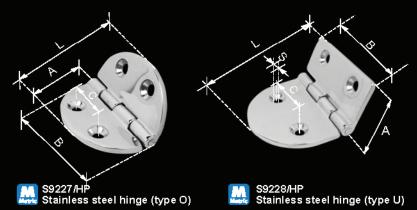
S9227/HP, S9228/HP

Technical Data

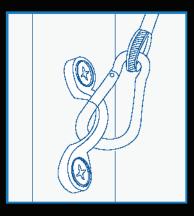
Casting material : AISI316 - DIN 1.4408
Surfacetreatment : "M.P." (Mirror polished)

Field of application

Stainless steel hinges are elegantly designed for marine applications where a special corrosion resistance of the boat deck is required.



item no.	\$9227/HP	SIZE	A	B	L	Ø S	1
Material	\$8316	(mm)	(mm)	(mm)	(mm)	(mm)	
	6922-7644	4	32	64	64	6.3	250
item no.	\$9228/HP	SIZE	A	B	L	Ø S	13
Material	\$8316	(mm)	(mm)	(mm)	(mm)	(mm)	
	6922-8644	4	31.5	64	81	6.3	200



S322C

Technical D at aCasting material: AISI316 - DIN 1.4408

Surface treatment: "E.R." (Electro polished)

Field of application

Wire eye straps-heavy type are elegantly designed for marine applications where a special corrosion resistance of the boat deck is required.



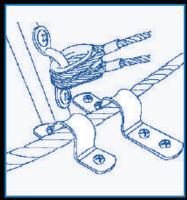


item no.	\$322C	SIZE	A	B	L	Ø S	
Material	\$8316	(mm)	(mm)	(mm)	(mm)	(mm)	
	6322-0548	5	12.5	4.5	48	5	2,000











SF322, SF323, SF324

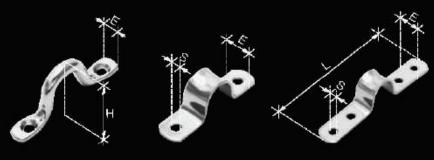
Technical Data

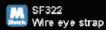
Stamping material : AISI304 - DIN 1 / IS08
Stamping material : AISI304 - DIN 1 / IS08
Stamping material : AISI304 - DIN 1 / IS08
Froduction : SF322 - Strap - Stee chart : SF323 - Strap - Stamped |
Surface trestment : "EIR" (Electro polished)

Field of application

Eye straps are designed for easy assembly onto a flat panid. Eye strap are used for attachment of different assembled fittings.







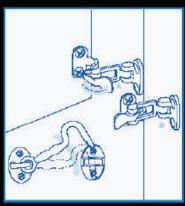




demno. Malanai	SF322	SIZE	E (mm)	H (mm)	L (mm)	ØS		13
	SS304	(mm)				(mm)	Strap	
	4322-0004	4	7.5	14	42	3,65	Stamped	5,000
	4322-0005	5	8.5	18	50	4.25	Stamped	2,000
	4322-0006	6	10.5	22	60	5.00	Stamped	1,200
	4322-0008	8	13.5	24	54	6.00	Stamped	900
	4322-0010	10	15.0	26	67	5.00	Cast	600

form no.	SF323	SIZE	E	L	øs	6.0	
MREIDE:	55316	(mm)	(m.m)	(mm)	(mm)		
	6323-0010	10	-11	42	4.2	3,500	
	6323-0013	13	11	45	4.2	3,000	
	6323-0016	16		48	4.2	2,000	

ALL THOU	SF324	SIZE	E	L	øs	1	
Macro!	55376	(mm)	(mm)	(mm)	(mm)		
	6324-0010	10	11	56	4.2	1,600	
	6324-0013	13	11	69	4.2	1,600	
	6324-0016	16	11	72	4.2	1,400	





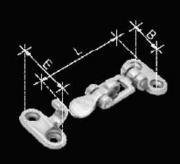
S9210, S9211

Technical Data

Castingmaterial : AIS316 - DIN 14408 Production : S9210 - Body - Cast S9211 - Body - Cast Surface treatment : "ALR" (Minor polished)

Field of applicationDoor hooks and Cover latches are designed for an application where a simple closing of latch is required.

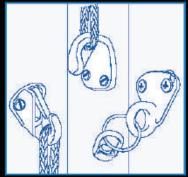




21	\$9211
23 paperint	Cover latch

Namino. Malerial	\$9210 55316	SIZE (inch)	B (mm)	E (mm)	L (mm)	Ø S (mm)	1
	6921-0013	3"	24	38	81	4	150
	6921-0004	4"	24	38	105	4	125
rem no.	S9211	SIZE	В	E	L	ØS	- 69
Malerial	55316	(inch)	(mm)	(mm)	(mm)	(mm)	
	6921-1303	3"	22	38	76	5	250

Hingers & Deck Mounts





Technical Data Casting material : AISB16 - DIN 1.4408 Production : 55373 - Hook - Cast 55341 - Hook - Cast 55399 - Hook - Cast Surface treatment : "M.P." (Wirror polished)/ "E.P." (Electro polished)

Field of application

Awning hooks and Fender hooks are designed for easy screw assembly onto boot dedit for extra support to existing loose fittings.

Spring fender hooks with spring lever are designed for easy screw assembly onto boot dedit for extra support to existing loose fittings.

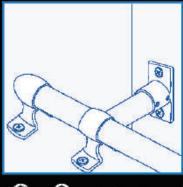


\$5373 Awning hook

S5341 Fender hook

\$5359 Spring fender hook

Herrino	\$5373	SIZE	B	E	L	Ø 5	13
Halanti	58316	(mm)	(mm)	(mm)	(mm)	(m m)	
	6537-3019 (E.P.)	19	16	27	21	3.7	1,200
	6537-3119(M.P.)	19	16	27	21	3.7	1,200
ltermino	S5341	SIZE	B	E	L	Ø 5	4
Meterial	58316	(mm)	(mm)	(mm)	(mm)	(m m)	
	6534-1009(E.P.) 6534-1109(M.P.)	9	18 18	30 30	18 18	4.6 4.6	1,200 1,200
itemno	\$5359	SIZE	B	E	L	Ø S	7
Issisisi	\$8316	(mm)	(mm)	(mm)	(mm)	(m m)	
	6535-9005(E.P.)	5	10	34	37	4.6	600
	6535-9010(E.P.)	10	10	34	40	4.3	500





\$391, \$392, \$393

Technical Data

Production : AISB16 - DIN 1.4408
Production : SS91 - Cap - Cast S392 - Cap - Cast S393 - Cap - Cast S393 - Cap - Cast S403 - Cap - C

Field of application Stainless roll fittings are elegantly designed with precision casting for a special solid rust resistant look on boat canopy assemblies.









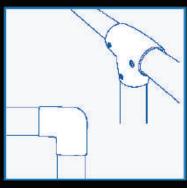
Hereno	\$391	SIZE	Ø c	E	L	Ø 5	*
Hereno	\$8316	(Inch)	(mm)	(mm)	(mm)	(mm)	
	6391-0100	1"	26	59.5	73	5.2	70
Helmino	\$392	SIZE	Ø C	H	L	Ø 5	1
Material	\$8316	(indh)	(mm)	(mm)	(mm)	(mm)	
	6392-0001	1"	26	59.5	73	5.2	70
Нетто	S393	SIZE	Ø C	H	L	Ø 5	4
маказа	58316	(Inch)	(mm)	(mm)	(mm)	(m m)	
	6393-0001	1"	26	35	73	6.4	175





Hingers & Deck Mounts









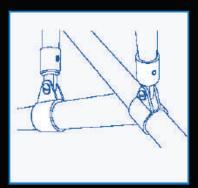


Technical Data

| Technical Data | Castingmeterial | : AISB 16 - DIN 1.4408 | Production | : 5394 - Cap - Cast | : 5395 - Cap - Cast | : Surface treatment : "M.P." | M'iron polished |

Field of application

Stainless rail fittings are elegantly designed with precision casting for a special solid rust resistant look on boat canopy assemblies.









S31601, S31602

Technical Data

AIS 316 - DIN 1.4408 S3 1601 - Cap - Cast S3 1602 - Cap - Cast "M.P." (Minor polished) "E.P." (Electro polished) Casting material Production Surface treatment:

Field of application Stainless rail fittings are elegantly designed with precision casting for a special solid rust resistant look on boat canopy assembles.







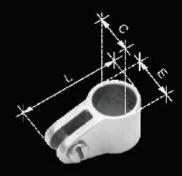


Mound	\$394 55316	SIZE (inch)	Øc (mm)	ØE (mm)	L (mm)	S
	6394-0001	1"	26	33	52	150
Mesoral	\$395 55316	SIZE (inch)	B (mm)	Øc (mm)	L (mm)	*
	6395-0001	1"	52	26	58	80





Rail fitting (top cap)



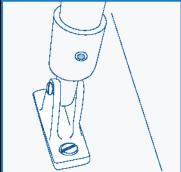


331602 Rail fitting (top slide cap)

Messal	\$31601 \$5316	SIZE (inch)	Ø C (mm)	L (mm)	Ø 5 (mm)	1
	6316-0101(E.P.)	1"	26.0	60	7	200
	6316-0102(E.P.)	3/4"	19.4	55		250
	6316-0103(E.P.)	7/8"	22.6	59	7	250
	6316-0104(M.P.)	1"	26.0	60	7	200
	6316-0105(M.P.)	3/4"	19.4	55		250
	6316-0106(M.P.)	7/8"	22.6	59	7	200
	6316-0133(M.P.)	1.3/16"	30.4	62	8	150
hemmo	S31602	SIZE	Øc	1	Øs	1
Material	55316	(inch)	(m m)	(mm)	(mm)	
	6316-0201(E.P.)	1"	26.0	33,0	57.0	200
	6316-0202(E.P.)	3/4"	19.4	25.2	45.0	250
	6316-0203(E.P.)	7/8"	22.7	28.0	53.5	250
	6316-0204(M.P.)	1"	26.0	33.0	57.0	150
	6316-0205(M.P.)	3/4"	19.4	25.2	45.0	250
	6316-0206(M.P.)	7/8"	22.7	28.0	53.5	200
	6316-0233(M.P.)	1.3/16"	30.4	36.0	60.0	150



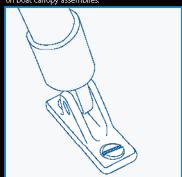






Technical Data
Technical Data
Casting material : AISI316 - DIN 1.4408
Production : S31614 - Hinge - Cast
S31614 - Hinge - Cast
S31614 - Hinge - Cast
Surface treatment : "E.P." (Electro polished)
"M.P." (Mirror polished)

Field of application
Stainless rail fittings are elegantly designed with precision casting for a special solid rust resistant look on boat canopy assemblies.



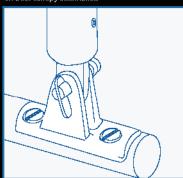


S31606, S31606A

Technical Data

: AISI316 - DIN 1.4408 : S31606 - Hinge - Cast S31606A - Hinge - Cast : "E.P." (Electro polished)/ "M.P." (Mirror polished) Casting material Production Surface treatment :

Field of application
Stainless rail fittings are elegantly designed with precision casting for a special solid rust resistant look on boat canopy assemblies.





S316061, S316061A

Technical Data

: AISI316 - DIN 1.4408 Casting material Production Casting material : AISI3 to - DNN 144006
Production : S316061-Hinge - Cast
S316061A - Hinge - Cast
Surface treatment : "E.P." (Electro polished)/
"M.P." (Mirror polished)

Field of application
Stainless rail fittings are elegantly designed with precision casting for a special solid rust resistant look on boot canonic scamblias.

ingers & Deck Mounts







S31614A Deck hinge (mount with removable pin)

item no. Material	\$31614 ss316	SIZE (inch)	B (mm)	L (mm)	Ø S (mm)	T (mm)	4
	6316-1478 (E.P)	7/8"	7	63	5	6	250
	6316-1403 (M.P)	7/8"	7	63	5	6	200
item no. 🕝							
Material	S31614A SS316	SIZE (inch)	B (mm)	L (mm)	Ø S (mm)	T (mm)	73







31606A Deck hinge (angle side mount with removable pin)

item no.	\$31606	SIZE	B	L	Ø S	T	B
Material	\$\$316	(inch)	(mm)	(mm)	(mm)	(mm)	
	6316-0678 (E.P)	7/8"	8	56	5.2	4.75	350
	6316-0614 (M.P)	7/8"	8	56	5.2	4.75	200
item no.	S31606A	SIZE	B	L	Ø S	T	4
Material	SS316	(inch)	(mm)	(mm)	(mm)	(mm)	
	6316-0687 (E.P)	7/8" 7/8"	8 8	56 56	5.2 5.2	4.75 4.75	n/a 200





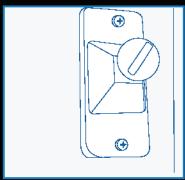


S316061A Deck hinge (rail mount with removable pin)

item no.	\$316061	SIZE	B	L	Ø S	T	43
Material	\$8316	(inch)	(mm)	(mm)	(mm)	(mm)	
	6316-0611(E.P)	7/8"	8	56	6	4.5	200
	6316-0612 (M.P)	7/8"	8	56	6	4.5	200
item no.	S316061A	SIZE	B	L	Ø s	T	***
Material	SS316	(inch)	(mm)	(mm)	(mm)	(mm)	
	6316-0615 (E.P)	7/8"	8	56	6	4.5	200
	6316-0617 (M.P)	7/8"	8	56	6	4.5	200

Hingers & Deck Mounts





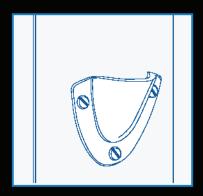


S31612, S31612A

Technical Data

Production : AISI316 - DIN 1 A408
Production : S31612 - Hinge - Cast
S31612A - Hinge - Cast
Surface treat ment : "E.P." (Electro polished)
"M.P." (Mirror polished)

Field of application
Stainless rail fittings are elegantly designed with precision casting for a special solid rust resistant look on boat can opy assemblies.



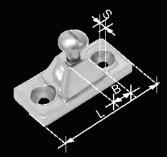
SF8345

Technical Data

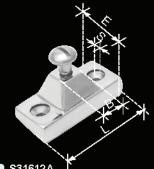
Forging material : AISI316 - DIN 1.4401 Production : SF8345 - Vent - Forged Surface treatment : "E.P." (Electro polished)

Field of application

Vents are specially designed to cover dust or water from the exhaust port of a motor boat.

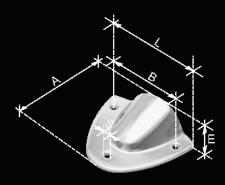


S31612
Deck hinge (side mount)



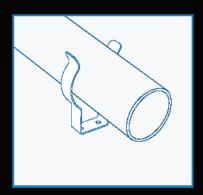
S31612A Deck hinge (angled side mount)

item no.	\$31612	SIZE	B	E	L	Ø S	1
Material	ss316	(inch)	(mm)	(mm)	(mm)	(mm)	
	6316-1278 (E.P)	7/8"	10	22.5	50	5.4	500
	6316-1203 (M.P)	7/8"	10	22.5	50	5.4	250
item no.	\$31612A	SIZE	B	E	L	Ø S	€
Material	ss316	(inch)	(mm)	(mm)	(mm)	(mm)	
	6316-1201 (E.P)	7/8"	11	22.5	50	5.4	300
	6316-1202 (M.P)	7/8"	11	22.5	50	5.4	250





item no. Material	SF8345 SS316	SIZE (mm)	A (mm)	B (mm)	E (m m)	L (mm)	Øs (mm)	4
	6834-5001	12*40*47	40	36	12	47.0	3.5	800
	6834-5002	16*55*62.5	55	50	16	62.5	4.5	400



SF3272 Technical Data

Forging material : AISI304 - DIN 1 4301
Production : SF3272 - Strap - Forged
Surface treatment : "E.P." (Electro polished)

Field of application

Tube straps are specially designed for extra support to tubes on boat decks.



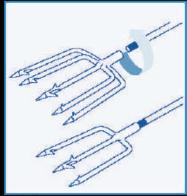


item no.	SF3272	SIZE	B	E	L	T	Ø S	43
Material	SS304	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
	4327-2050	50	20	33	85	1.5	4.2	250



OPI Hingers & Deck Mounts







SFHA/01, SFHA/03

Technical Data

Production : SHA/01 - Hook - Forged SFHA/03 - Hook - Forged SFHA/03 - Hook - Forged SFHA/03 - Hook - Forged Surface treatment : "E.R" [Electro polished]

Field of application

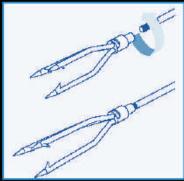
Fishing spear hooks are specially designed for assembly onto spears for fishing precision. All joints are TIG argon welded.

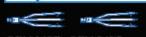


SFHA/01 Fishing spear hook

SFHA 103 Fishing spear hook

Merrino.	SFHA/01	SIZE	ØD	Ø D1	L	L1	M	T
Motoriol	55304	(mm)	(mm)	(mm)	(mm)	(mm)	(thread)	
	4000-0048	5*128	100	5	128	78	M6*1.0	158
Remno.	SFH A/03	SIZE	ØD	ØD1	L	L1	M	8
Material	88304	(mm)	(mm)	(mm)	(mm)	(mm)	(thread)	
	4000-3125	4.75*125	10	5	128	53	M6*1.0	250





SFHA/07, SFHA/08

Technical Data

Production SHA707 - Hook - Furged SHA708 - Hook - Furged SHA708 - Hook - Furged Surface froatment : "E.R." (Electro polished)

Field of application

Fishing spear hooks are specially designed for assembly onto spears for fishing precision. All joints are TIG argon welded.



Fishing spear hook



formino.	SFHA/07	SIZE	ØD	ØD1	Ø D2	L	M	0
Motorini	SS304	(mm)	(mm)	(mm)	(mm)	(mm)	(thread)	
	4000-7110	4*110	10	4	12	10	M6*1.0	350
Normo.	SFH A/08	SIZE	ØD	Ø D1	Ø D2	L	M	8
Material	\$\$304	(mm)	(mm)	(mm)	(mm)	(mm)	(thread)	
	4000-8515	E%1 50	10	S	15	2.50	14681.0	175

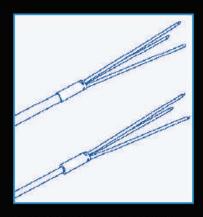








Hingers & Deck Mounts P



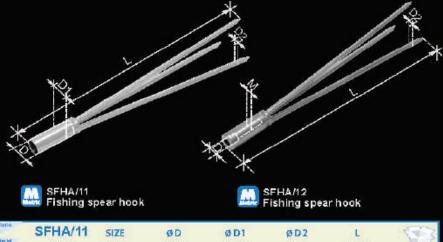
SFHA/11, SFHA/12

Technical Data

AJSI304 - D.N 1.4301 SFHA/11 - Hook - Forged SFHA/12 - Hook - Forged "E.P." (Electro poliched) Surface treatment

Field of application

Fishing spear hooks are specially designed for assembly onto spears for fishing precision. All joints are TIG argon welded.



Permio.	SFHA/11 88304	SIZE (mm)	ØD (mm)	Ø D1 (mm)		Ø D 2 (mm)	L (mm)	T
	4000-1112	12.7 * 28	12.7	15		5	280	60
Remino. Maneral	SFHA/12 98304	SIZE (mm)	ØD (mm)	Ø D1 (mm)	ØD2 (mm)	L (mm)	M (thread)	8
	4000-1224	7.5*24	7.5	1.5	5	280	M6	60



SF3900

Technical Data

Forging material: AISB04 - DIN 1.4301 : AISB06 - DIN 1.4401 (BanAISB16, Spring :AISB04 Ball: AISB04 Surfacetreatment: "E.R." (Electro polishwr)

Field of application

Bar springs are designed for an easy lodding and preventing the loosing of ball bullet on the pin.



emino. Source	SF3900 88316	SIZE (inch)	ØD (mm)	ØD1 (mm)	Ø D2 (mm)	L (mm)	4
	6390-0316	3/16"*1/2"	1,5	5.00	18	14.5	4,000
	6390-0147	1/4"+7/8"	2.0	6.35	25	24.3	2,500
	6390-0141	1/4"*1 5/16"	2.0	6.35	25	35.3	2,300
	6390-0142	1/4"*2 1/2"	2.0	6.35	25	65.1	1,200
	6390-0516	5/16"* 1 1/2"	2.5	00.8	30	40.6	1,200





Terms and Conditions of Sale



Specifications

The manufacturer is constantly testing and improving the performance of products, thus specifications are subject to change without notice. For the latest information please contact your local distributor.

General

For the purpose of these terms and conditions of sale, Structural Dynamics Co., Ltd. (Strudyna) should be referred to as "Manufacturer". Any related companies and representatives of Strudyna is referred to as a "Local distributor". Any Client purchasing Structural Dynamic items shall be referred to as the "Buyer". Products described and presented in this catalog shall be referred to as the "goods". These general terms and conditions of sale will apply to all sales of Structural Dynamic items described in this catalog and serves as a binding contract and agreement between manufacturer, local distributor and buyer.

Title and Risk

The local distributor shall hold the title and proprietary ownership of the goods until 100% of payment to the goods have been paid by the buyer to the local distributor. However unless prior written consent is agreed, the risk of damage to the goods shall be passed to the buyer upon the receipt of the goods by the buyer.

Cancellation

Goods purchased and confirmed by buyer may not be subject to cancellation, unless a prior written consent is given by the manufacturer or local distributor to the buyer.

Force majeure

In the event of unpredictable natural or political cause beyond the manufacturer's and local distributor's control such as but not limited to: War, Rebellion, Piracy, Civil Commotion, Political unrest, Strike or industrial dispute, fire, earthquake, flooding or draught or bad weather, the unavailability of materials or delay delivery of suppliers, the inability to secure labour force or by any other cause whatsoever beyond the Manufacturer's and Local distributor's control, the manufacture and local distributor shall notify promptly to the buyer the cause of force majeure. The manufacture and Local distributor shall have the right to cancel the contract to deliver so long as the force majeure shall continue.

<u>Warranty</u>

The products listed in this catalog are supplied to the buyer with a guarantee of being free from detective craftsmanship and materials at the time of shipment. Shall to buyer be dissatisfied with the product, a written notice must be sent to local distributor within 14 days from receipt of goods and subject to replacement or cancellation of order by choice of local distributor and manufacture. The manufacture warrants that in normal usage and with proper maintenance, goods will perform under its specifications for a period of 5 years. Any goods which prove to be defective under normal use will be repaired or replaced at the manufacturer's option. The manufacture and local distributor accept no responsibility if the goods purchased from this catalog are used in applications where their safe working load listed in this catalog is exceeded or in cases where goods are improperly installed. The manufacture and local supplier make no representations for suitability to a particular design application setting. All good supplied in this catalog carry a limited lifetime warranty from the manufacture.

Price conditions

Prices quoted by local distributor to buyer shall remain unchanged for the duration of 14 days unless quantities, packaging instructions, delivery destinations or any contract details are changed. Unless further stated in order confirmation, prices are ex-local distributor premises. Should a delivery destination be reached by local distributor and buyer, the local distributor is entitled to choose any means of transport the local distributor sees it fit.

Product series





SLIMFIX V I.O

Slimfix started with the ideal of redesigning a fitting that is strictly architectural for purely ballistrace use. As old cigar and frame types turnbuckles are bulky and more industrially design then decorative, and thimbles and wire clips were unpleasant looking. Slimfix was conceived to overcome these design neglects.







go to catalog menu



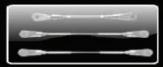


P2H-CIDJUSTEL V4.0

The development of the Pa-adjuster is again an excellent example of adhering to the SAOD theory. During the development for cable truss system facade, we encounter the need for a better profile than any marine turnbuckles had provided thus far.











go to catalog menu

P2H-ADJUSTER

PZH SET



HAPLID TEUNIOUGE A 1'0

The Hybrid Tensioner started with the idea of having a short tensioner with smooth lines for decorative purposes but also robust enough to be installed in public places.

As the name "Hybrid" suggests, the main design feature in the Hybrid tensioner is its multi function ability to accommodate three of the most popular systems in decorative design; Swage, Rod and Slimfix systems.

more >>











מm-מטשעבובר V 2.0

The AM adjuster started with it's root from the most robust environment of the marine in mind. From the expected calm sea to the worst unexpected storm, the AM adjuster was designed to perform in environments of continues pounding from high winds, seawaters, seasonal rains, and thunders.

more >>









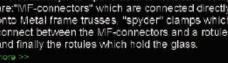




אסמנ N ו'ס

M-facade (or Metal frame Facade) is the first of five facade series scheduled for launching with Strudyna, it is the simplest construction of geometric design and load distribution

The three major components in an M-facade setup are:"MF-connectors" which are connected directly onto Metal frame trusses, "spyder" clamps which connect between the MF-connectors and a rotule, and finally the rotules which hold the glass.









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